

REMARK
COMMENT

Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
 NIH-MGC Project URL: <http://mgc.nci.nih.gov>
 On Aug 19, 2003 this sequence version replaced gi:15530217.
 Contact: MGC help desk
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Institute for Systems Biology
<http://www.systemsbio.org>
 Contact: amadan@systemsbiology.org
 Anup Madan, Jessica Fahey, Erin Helton, Mark Kettelman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IRAL Plate: 14 Row: m Column: 14
 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 3422363.

FEATURES

source

1..2096
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="MGC:1168 IMAGE:3842949"
 /issue_type="Placenta; choriocarcinoma"
 /clone_lib="NIH MGC_21"
 /lab_host="DH10B-R"
 /note="Vector: pOTB7"
 1..2096
 /gene="BAIAP2L1"
 /note="synonym: IRTKS"
 /db_xref="GeneID:55971"
 217..1752
 /gene="BAIAP2L1"
 /codon_start=1
 /product="BAI1-associated protein 2-like 1"
 /protein_id="AAH13888.1"
 /db_xref="GI:15530218"
 /translation="MSRGPBPRVRLTSTYRNWEOPIRNLINIGRYEAVNMLAKAYIDVAKIGETATGSPVTELGHLVLEISTHKLNLSDNPKFKHELIHLEKLELDVAKYMMATLKRQTEHKNKLESLKESQAEIKIRKSOSSRNLKXHEKLEEVETGTSROSEIOKFIADGCEKALEEKRKFCFLADGKPMHLYLQAEELNSKLPRWQETCVDAIKYPEKIMMIEIKTPASTPVSGTQOASMIERSNVVDYOTLSKSPMPAPASGRATYSPLIDMNNPATPAASORVNNSTGSRPSIORSVATGLNNMKQKXKTIFFHTAGSNKTLISAGQDVITLLIPEKIDGMLYGEHDYSKRGHFPSSITKLLENETEAIVTPSPTPVRSISTVNSSENSVVIPEPDVLECLSWGAADRADSSARTTSTFPAKAPSKPTAAENDANGTAKPEPLSGENPFATVKLRPTVINDRSAP IIR"

CDS

gene

ORIGIN

Query Match 100.0%; Score 2096; DB 8; Length 2096;
 Best Local Similarity 100.0%; Pired. No. 0;
 Matches 2096; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTGCTCTCTGAGAAGAGCGGAGCGGCGCTGCGCAAGTTTGAATTTTCGAG 60
 DB 1 CTCCTGCTCTCTGAGAAGAGCGGAGCGGCGCTGCGCAAGTTTGAATTTTCGAG 60
 QY 61 CGGAGAGCGCGCGCGGCACTCTCGGAGCGGAGCGGCGCGGCGCGGCGCGGCGG 120
 DB 61 CGGAGAGCGCGCGCGGCACTCTCGGAGCGGAGCGGCGGCGCGGCGCGGCGGCGG 120
 QY 121 CCCTTAGTGGGCGCGCGGCGCTCCGCTGCGCGGAGCGCGGCGGCGGCGGCGGCGG 180
 DB 121 CCCTTAGTGGGCGCGCGGCGCTCCGCTGCGCGGAGCGCGGCGGCGGCGGCGGCGG 180
 QY 181 CGTCTCCGCGCGCTTGTCTGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
 DB 181 CGTCTCCGCGCGCTTGTCTGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240

QY 241 AACGGCTCAGGAGAGACCTTACCGGAATGTTANGAAAGTTCAATCTTGCGGTGCA 300
 DB 241 AACGGCTCAGGAGAGACCTTACCGGAATGTTANGAAAGTTCAATCTTGCGGTGCA 300
 QY 301 AATTTAATAAATCTGGGAAAAAATTAAGAAAGCTGTAACGCTATGATCTTGCGAGCA 360
 DB 301 AATTTAATAAATCTGGGAAAAAATTAAGAAAGCTGTAACGCTATGATCTTGCGAGCA 360
 QY 361 AAAGCTACTAGTANGAGAGTGGGCAACATGCGTGAATGCGCACTGGGTCCCGGTGCA 420
 DB 361 AAAGCTACTAGTANGAGAGTGGGCAACATGCGTGAATGCGCACTGGGTCCCGGTGCA 420
 QY 421 ACTGAAGTGGACATGTCCTCATAGATTTCAAGTACCCCAAGAAATCTCAAGAGAGT 480
 DB 421 ACTGAAGTGGACATGTCCTCATAGATTTCAAGTACCCCAAGAAATCTCAAGAGAGT 480
 QY 481 CTGATGAAATTTTAAAAAATTCACAAAGAGATTATCCATGAGCTGGAGAGAGATA 540
 DB 481 CTGATGAAATTTTAAAAAATTCACAAAGAGATTATCCATGAGCTGGAGAGAGATA 540
 QY 541 GAACCTGACGTAATATATGAAAGCAACTTAAGAAATCCAAACAGAACACAGAAAT 600
 DB 541 GAACCTGACGTAATATATGAAAGCAACTTAAGAAATCCAAACAGAACACAGAAAT 600
 QY 601 AAATTAAGTCTTTGAGAAATCCCAAGCTGAGTTGAAGAGATCAGAGAGAAAGCCAA 660
 DB 601 AAATTAAGTCTTTGAGAAATCCCAAGCTGAGTTGAAGAGATCAGAGAGAAAGCCAA 660
 QY 661 GGAAGCCGAAACGCACTCAATATGAAACACAAAGAAATGAGTATGAGAGACGTTACT 720
 DB 661 GGAAGCCGAAACGCACTCAATATGAAACACAAAGAAATGAGTATGAGAGACGTTACT 720
 QY 721 TCTGTGAGAGTGAATCCGAAATTAATGAGATGAGTGGTGAAGAGGCTGCTGGA 780
 DB 721 TCTGTGAGAGTGAATCCGAAATTAATGAGATGAGTGGTGAAGAGGCTGCTGGA 780
 QY 781 GAGAAGAGCGCTTCTGCTTCTGCTTGAATGAGCATGAGCTTGGCAACCATATCAT 840
 DB 781 GAGAAGAGCGCTTCTGCTTCTGCTTGAATGAGCATGAGCTTGGCAACCATATCAT 840
 QY 841 TATATACATTAAGTCTGAGAACTGTAAGTATGAGTCAAGCTGCTCGTGGCAAGACC 900
 DB 841 TATATACATTAAGTCTGAGAACTGTAAGTATGAGTCAAGCTGCTCGTGGCAAGACC 900
 QY 901 TGTGTATGATGATCAAGAGTGGCAGAGAAATCATGATATGATGAGAAATTAAGACC 960
 DB 901 TGTGTATGATGATCAAGAGTGGCAGAGAAATCATGATATGATGAGAAATTAAGACC 960
 QY 961 CCAAGCTCTACCCCGGTGTGTGAACTCTCAGGCTTCAACCATGATGAGAGAGCAAT 1020
 DB 961 CCAAGCTCTACCCCGGTGTGTGAACTCTCAGGCTTCAACCATGATGAGAGAGCAAT 1020
 QY 1021 GTGTGTAAGAAAGTTACGACACCTTTCTAAATGCTCACCAAGAGTCCCCGCTCT 1080
 DB 1021 GTGTGTAAGAAAGTTACGACACCTTTCTAAATGCTCACCAAGAGTCCCCGCTCT 1080
 QY 1081 TCAAGCAGACATATACAGTCTCCCTTGATGATATGTTATATACCAAGCAGCGTGGC 1140
 DB 1081 TCAAGCAGACATATACAGTCTCCCTTGATGATATGTTATATACCAAGCAGCGTGGC 1140
 QY 1141 CCGAATTCACAAAGGTAATTAATTCACAGGTAATTCGAGAGTCCAGTTTACAGCGA 1200
 DB 1141 CCGAATTCACAAAGGTAATTAATTCACAGGTAATTCGAGAGTCCAGTTTACAGCGA 1200
 QY 1201 TCAAGTTCGAGTGAACGGGACGTGAACATGATGAAGAGAGAAAGTGAAGACATCTTC 1260
 DB 1201 TCAAGTTCGAGTGAACGGGACGTGAACATGATGAAGAGAGAAAGTGAAGACATCTTC 1260
 QY 1261 CCGCACAATGCGGGGCTTCAACAAGACCTTATCTAGCTTTTGCACAGGAGATGTCATCAG 1320
 DB 1261 CCGCACAATGCGGGGCTTCAACAAGACCTTATCTAGCTTTTGCACAGGAGATGTCATCAG 1320
 QY 1321 CTGCTATCCCGAGAGAAAGATGGCTGCTATGAGAGAACACAGCTGTCCAAAGCG 1380

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:39:55 ; Search time: 10285 Seconds
(without alignments)
11584.237 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096
Sequence: 1 cccctcgtcctcgaaga.....aaaaaaaaaaaaa 2096

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: gb_ba:*
2: gb_in:*
3: gb_env:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pr:*
9: gb_ro:*
10: gb_sts:*
11: gb_sy:*
12: gb_un:*
13: gb_vi:*
14: gb_htg:*
15: gb_pl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2096	100.0	2096	8 BC013888	BC013888 Homo sapi
2	2025.2	96.6	2527	8 AF119666	AF119666 Homo sapi
3	1821.4	86.9	2317	6 AX058219	AX058219 Sequence
4	1560	74.4	1580	8 AK027109	AK027109 Homo sapi
5	1235.4	58.9	1491	6 CQ730103	CQ730103 Sequence
6	1163	55.5	3040	9 BC015459	BC015459 Mus muscu
7	1042.8	49.8	2141	9 BC089216	BC089216 Rattus no
8	859	41.0	2521	8 AK027142	AK027142 Homo sapi
9	745.2	35.6	2064	5 BX933564	BX933564 Gallus ga
10	671	32.0	2296	8 AK074419	AK074419 Homo sapi
11	594.4	28.4	3616	5 BC061676	BC061676 Xenopus l
12	556	26.5	359	6 AK379210	AK379210 Sequence
13	397	18.9	685	5 BX931244	BX931244 Gallus ga
14	382.6	18.3	2563	5 BC068330	BC068330 Danio rer
15	381	18.2	2566	5 AY398378	AY398378 Danio rer
16	377.8	18.0	2570	5 BC050238	BC050238 Danio rer
17	365.8	17.5	2603	5 BC092786	BC092786 Danio rer
18	357	17.0	11840	8 AC093169	AC093169 Homo sapi

19	355	16.9	3128	6 CQ843301	CQ843301 Sequence
20	355	16.9	3128	8 AK124269	AK124269 Homo sapi
21	307.2	14.7	1678	9 AF390179	AF390179 Mus muscu
22	285.2	13.6	490	5 BX930239	BX930239 Gallus ga
23	266.6	12.7	2078	9 CGU41899	CGU41899 Cricetinae
24	265.4	12.7	132072	8 AC004841	AC004841 Homo sapi
25	265.4	12.7	156195	8 AC093799	AC093799 Homo sapi
26	265.4	12.6	1798	9 AY037934	AY037934 Rattus no
27	265	12.6	2111	9 BC074009	BC074009 Rattus no
28	261.6	12.5	1798	9 AF390178	AF390178 Mus muscu
29	261.6	12.5	2545	9 BC006620	BC006620 Mus muscu
30	261.6	12.5	2548	9 BC016411	BC016411 Mus muscu
31	259.6	12.4	2080	6 AR069610	AR069610 Sequence
32	259.6	12.4	2080	6 BD132800	BD132800 Insulin x
33	259.6	12.3	2080	6 AR352563	AR352563 Sequence
34	258	12.3	1078	8 HSU70669	HSU70669 Human Fas-1
35	258	12.3	2033	8 AB017120	AB017120 Homo sapi
36	258	12.3	2072	8 BC014020	BC014020 Homo sapi
37	258	12.3	2077	8 AB169737	AB169737 Macaca fa
38	258	12.3	2129	6 CQ896463	CQ896463 Sequence
39	258	12.3	2129	8 AB015020	AB015020 Homo sapi
40	258	12.3	2137	6 BD226257	BD226257 Pancreat
41	258	12.3	2137	6 AX011646	AX011646 Sequence
42	258	12.3	2519	8 BC032559	BC032559 Homo sapi
43	258	12.3	2877	8 AB017119	AB017119 Homo sapi
44	258	12.3	3168	8 AB015019	AB015019 Homo sapi
45	256.4	12.2	1910	8 AK222670	AK222670 Homo sapi

ALIGNMENTS

RESULT 1	BC013888	2096 bp	mRNA	linear	PRI 15-FEB-2005
LOCUS	BC013888				
DEFINITION	Homo sapiens BAII-associated protein 2-1 like 1, mRNA (cDNA clone MGC:11168 IMAGE:3842949), complete cds.				
ACCESSION	BC013888				
VERSION	BC013888.2	GI:33871229			
KEYWORDS	MGC.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	1 (bases 1 to 2096)				
AUTHORS	Straussberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, P.S., Wagner, L., Shennan, C.M., Schler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, D., Hsieh, F., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Ussidi, T.B., Toshiyuki, S., Carrinci, P., Prange, C., Rabe, S.S., Loggellano, N.A., Peters, G.J., Abramson, R.D., Mullany, S.J., Bosak, S.A., McEwan, P.J., Mckernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Huiyk, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Kettman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakeley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butlerfield, Y.S., Krzywinski, M.I., Skalska, U., Smalley, D.B., Scherch, A., Schein, J.E., Jones, S.J. and Marra, M.A.				
TITLE	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences				
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)				
PUBMED	12477932				
REFERENCE	2 (bases 1 to 2096)				
AUTHORS	Director MGC Project.				
TITLE	Direct Submission				
JOURNAL	Submitted (07-SEP-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer				

Db	1321	CGCTCATCCCGAGAGAGAGATGGCTGGCTCTATGAGAAACAGAGTGTCCAGAGCG	1380
QY	1381	AGGGGTGGTTCCCGTCCGTCCGTACACGAAGTTGCTGGAAAGAAATGAGACAGAGCAAGT	1440
Db	1381	AGGGGTGGTTCCCGTCCGTCCGTACACGAAGTTGCTGGAAAGAAATGAGACAGAGCAAGT	1440
QY	1441	ACCGTCCCAAGCCCAAGCCCAAGCCCAAGCCCAAGCCCAAGCCCAAGCCCAAGCCCAAG	1500
Db	1441	ACCGTCCCAAGCCCAAGCCCAAGCCCAAGCCCAAGCCCAAGCCCAAGCCCAAGCCCAAG	1500
QY	1501	AATACAGATGTTGATCCCGCCACCGACCTAATTGAAATGTTGCTGATGAGGAGGAGCT	1560
Db	1501	AATACAGATGTTGATCCCGCCACCGACCTAATTGAAATGTTGCTGATGAGGAGGAGCT	1560
QY	1561	GCCGACAGAGAGAGATTCGGCCAGAGAGAGATTCAGATTCAGATTCAGATTCAGATTC	1620
Db	1561	GCCGACAGAGAGAGATTCGGCCAGAGAGAGATTCAGATTCAGATTCAGATTCAGATTC	1620
QY	1621	CCCGAGACCGGGCTCTTACAGATTCAGATTCAGATTCAGATTCAGATTCAGATTCAG	1680
Db	1621	CCCGAGACCGGGCTCTTACAGATTCAGATTCAGATTCAGATTCAGATTCAGATTCAG	1680
QY	1681	GAAAAACCCCTTTGGCCATCTGTAATCCCGCCGACCTGACGATGATGATGATGATGAT	1740
Db	1681	GAAAAACCCCTTTGGCCATCTGTAATCCCGCCGACCTGACGATGATGATGATGATGAT	1740
QY	1741	ATCATTCGATGAG	1800
Db	1741	ATCATTCGATGAG	1800
QY	1801	ATGATGAG	1860
Db	1801	ATGATGAG	1860
QY	1861	AACCTTAATGTCGCTGCTTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	1920
Db	1861	AACCTTAATGTCGCTGCTTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	1920
QY	1921	AAGTTTCTGCTTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	1980
Db	1921	AAGTTTCTGCTTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	1980
QY	1981	ATTTTCTTCTTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	2040
Db	1981	ATTTTCTTCTTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	2040
QY	2041	AA	2096
Db	2041	AA	2096
RESULT 2			
AF119666	2527 bp	mRNA	linear
LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
REFERENCE			
AUTHORS			

[illegible]

QY 481 CTGATGAAATTTTAAATTTCCAAAGAGATTTATCCATGAGCTGGAGAAAGATA 540
 DB 481 CTTGATGAAATTTTAAATTTCCAAAGAGATTTATCCATGAGCTGGAGAAAGATA 540
 QY 541 GAACTTGAAGTAAATATATGAAACGCACTCTTAAAGATACCAACAGAACAGAGAT 600
 DB 541 GAACTTGAAGTAAATATATGAAACGCACTCTTAAAGATACCAACAGAACAGAGAT 600
 QY 601 AAATTAAGTCTTTTGAGAAATCCAGCTGATGAGAAAGATACAGAAAGAAAGCCAA 660
 DB 601 AAATTAAGTCTTTTGAGAAATCCAGCTGATGAGAAAGATACAGAAAGAAAGCCAA 660
 QY 661 GAAAGCCGAAACGCACTCAATATATGAAACCAAGAAATGAGTATGAGAGCCCTTACT 720
 DB 661 GAAAGCCGAAACGCACTCAATATATGAAACCAAGAAATGAGTATGAGAGCCCTTACT 720
 QY 721 TCTGCTCAGAGTGAATTCAGAAATTCATTCAGATGCTTGGAAAGAGCTCTGCTTGA 780
 DB 721 TCTGCTCAGAGTGAATTCAGAAATTCATTCAGATGCTTGGAAAGAGCTCTGCTTGA 780
 QY 781 GAGAAAGAGCCCTTCTGCTTTCTGCTTATGAGCACTGCTGCTTGGCAACCACTACT 840
 DB 781 GAGAAAGAGCCCTTCTGCTTTCTGCTTATGAGCACTGCTGCTTGGCAACCACTACT 840
 QY 841 TATTATCACTTACAGCTGAGAACTAGCTGAATTCAGAGCTGCTGCTGAGAGAGACC 900
 DB 841 TATTATCACTTACAGCTGAGAACTAGCTGAATTCAGAGCTGCTGCTGAGAGAGACC 900
 QY 901 TGTGTTGATGCCATCAAAAGTGCAGAGAAATCATGAATATGATCGAAATTAAGACC 960
 DB 901 TGTGTTGATGCCATCAAAAGTGCAGAGAAATCATGAATATGATCGAAATTAAGACC 960
 QY 961 CCAAGCTTACCCCTGCTTGGAACTCTCTGAGCTTCAACCAATATGAGAGAGCAAT 1020
 DB 961 CCAAGCTTACCCCTGCTTGGAACTCTCTGAGCTTCAACCAATATGAGAGAGCAAT 1020
 QY 1021 GTGCTTGAAGAAAGATTAAGCAACCCCTTCTTAAATGCTCAACCAAGATGCTCTCT 1080
 DB 1021 GTGCTTGAAGAAAGATTAAGCAACCCCTTCTTAAATGCTCAACCAAGATGCTCTCT 1080
 QY 1081 TCAAGCAGAGCATATATACAGTCCCTTGAATGATGTTTAAATACCCAGCCAGCTGCT 1140
 DB 1081 TCAAGCAGAGCATATATACAGTCCCTTGAATGATGTTTAAATACCCAGCCAGCTGCT 1140
 QY 1141 CCGAATTCACAAAGGATTAATTAATCAACAGTACTCCGAAAGATCCAGTTTACAGGCA 1200
 DB 1141 CCGAATTCACAAAGGATTAATTAATCAACAGTACTCCGAAAGATCCAGTTTACAGGCA 1200
 QY 1201 TCAAGTTGCTTGAACAGGACTGAACATGATGAAGAAAGCAAGTGAACATCTTTC 1260
 DB 1201 TCAAGTTGCTTGAACAGGACTGAACATGATGAAGAAAGCAAGTGAACATCTTTC 1260
 QY 1261 CCGCACTGCGGGCTCCAAACAGACTTACTCAGCTTTCAGAGGAGATGCTATCAGC 1320
 DB 1261 CCGCACTGCGGGCTCCAAACAGACTTACTCAGCTTTCAGAGGAGATGCTATCAGC 1320
 QY 1321 CTGCTCATCCCGAGAGAGAGATGCTGCTTGAAGAAAGAGAGTTCAGAGGCG 1380
 DB 1321 CTGCTCATCCCGAGAGAGAGATGCTGCTTGAAGAAAGAGAGTTCAGAGGCG 1380
 QY 1381 AGGGGTGGTTCCTGCTGCTGTAACAAGATGCTGAAGAAATGAGACAGAGAGAG 1440
 DB 1381 AGGGGTGGTTCCTGCTGCTGTAACAAGATGCTGAAGAAATGAGACAGAGAGAG 1440
 QY 1441 ACCGTGCCAGCCCAAGCCCAACAGAGAGAGATCAGCAGCTGAATCTTGTGAG 1500
 DB 1441 ACCGTGCCAGCCCAAGCCCAACAGAGAGAGATCAGCAGCTGAATCTTGTGAG 1500
 QY 1501 AATAGCAGTGTGATCCTCCCAAGCCCACTACTTGAATGCTTGTGATGAGGAGAGCT 1560
 DB 1501 AATAGCAGTGTGATCCTCCCAAGCCCACTACTTGAATGCTTGTGATGAGGAGAGCT 1560

QY 1561 GCCGACAGAGAGAGAGATTCGGCCAGAGAGCATTCACCTTTAAAGCCCGAGCTCAAG 1620
 DB 1561 GCCGACAGAGAGAGAGATTCGGCCAGAGAGCATTCACCTTTAAAGCCCGAGCTCAAG 1620
 QY 1621 CCCGAGACCGGCTCTTAAAGATGCAACGGGACTGCAAGAGCCGCTTTTCTCAGCGGA 1680
 DB 1621 CCCGAGACCGGCTCTTAAAGATGCAACGGGACTGCAAGAGCCGCTTTTCTCAGCGGA 1680
 QY 1681 GAAACCCCTTGGCACTGTGAATCTCGCCGAGCTGAGAGATGATGCTGCGCACCC 1740
 DB 1681 GAAACCCCTTGGCACTGTGAATCTCGCCGAGCTGAGAGATGATGCTGCGCACCC 1740
 QY 1741 ATCATTCGATGAG 1800
 DB 1741 ATCATTCGATGAG 1800
 QY 1801 ATGATGGGCGCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1860
 DB 1801 ATGATGGGCGCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1860
 QY 1861 AACTCTAATGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1920
 DB 1861 AACTCTAATGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1920
 QY 1921 AAGTTTCTGCTTAAAGTAAATGATGATGATGATGATGATGATGATGATGATGAT 1980
 DB 1921 AAGTTTCTGCTTAAAGTAAATGATGATGATGATGATGATGATGATGATGATGAT 1980
 QY 1981 AATTTCTTCTTAAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2030
 DB 1981 AATTTCTTCTTAAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2030

RESULT 3
 AX058219
 LOCUS AX058219 2317 bp DNA linear PAT 17-JAN-2001
 DEFINITION Sequence 89 from Patent WO0077040.
 ACCESSION AX058219
 VERSION AX058219.1 GI:12310720
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 REFERENCE 1
 Yue H., Tang Y.T., Hillman, J.L., Lal, P., Bandman, O., Baughn, M.R.,
 Azimzai, Y., Yang, J., Reddy, R. and Lu, D.A.
 Human intracellular signaling molecules
 Patent: WO 0077040-A 89 21-DEC-2000;
 Incyte Genomics, Inc. (US)
 FEATURES
 source 1..2317
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"
 ORIGIN
 Query Match 86.9%; Score 1821.4; DB 6; Length 2317;
 Best Local Similarity 99.9%; Pred. No. 6.2e-306; Indels 0; Gaps 0;
 Matches 1822; Conservative 0; Mismatches 1;
 QY 208 GCCGACAGCATGTCCTCGGGGCGCCGAGAGAGTGAACCGGCTCACCGAGAGCACTTACCGG 267
 DB 30 GCCGACAGCATGTCCTCGGGGCGCCGAGAGAGTGAACCGGCTCACCGAGAGCACTTACCGG 89
 QY 268 AATGTTATGAGAAACATTCCTGAGCTGCGGAAATTTAAATTAACCTGCGGAAAAATAT 327
 DB 90 AATGTTATGAGAAACATTCCTGAGCTGCGGAAATTTAAATTAACCTGCGGAAAAATAT 149
 QY 328 GAGAAAGCTGTAACGCTATGATCCTGCGAGAGAAAGCTTACTAGATGAGAGTGCAGAG 387
 DB 150 GAGAAAGCTGTAACGCTATGATCCTGCGAGAGAAAGCTTACTAGATGAGAGTGCAGAG 209

QY 388 ATCGTAGATTGCACTGGTCCCGGTGTCAACTGGAATGGGACATGCTCATAGAG 447
 DB 210 ATCGTAGATTGCACTGGTCCCGGTGTCAACTGGAATGGGACATGCTCATAGAG 269
 QY 448 ATTTAAGATCCCAAGAACTCAAGAGAGTCTTGAATAATTTTAAAAATTCAC 507
 DB 270 ATTTAAGATCCCAAGAACTCAAGAGAGTCTTGAATAATTTTAAAAATTCAC 329
 QY 508 AAGAGATATCATGAGCTGAGAGAGATAGAACTTGAAGTAAATATATGAGCGA 567
 DB 330 AAGAGATATCATGAGCTGAGAGAGATAGAACTTGAAGTAAATATATGAGCGA 389
 QY 568 ACTTAAAAAGATACCAACAGAACAGAAATTAATAGTCTTTGGAGAAATCCCA 627
 DB 390 ACTTAAAAAGATACCAACAGAACAGAAATTAATAGTCTTTGGAGAAATCCCA 449
 QY 628 GCTGAGTGAAGAGATCAAGAGAAAGCCAGAGAGCCGCAACTCAATATGAA 687
 DB 450 GCTGAGTGAAGAGATCAAGAGAAAGCCAGAGAGCCGCAACTCAATATGAA 509
 QY 688 CACAAAGAAATGAGATGTGAGACCGTTACTTCCTGAGAGTAAATCAAGAAATTC 747
 DB 510 CACAAAGAAATGAGATGTGAGACCGTTACTTCCTGAGAGTAAATCAAGAAATTC 569
 QY 748 ATTCAGATGTGTGCAAGAGAGCTGTGTTGAAGAGAGAGCGCTTCTGTCTGT 807
 DB 570 ATTCAGATGTGTGCAAGAGAGCTGTGTTGAAGAGAGAGCGCTTCTGTCTGT 629
 QY 808 GATAGCATGTGTGTGTTGCAACCAATATTTATCACTTACAGTCTGCAAGACTA 867
 DB 630 GATAGCATGTGTGTGTTGCAACCAATATTTATCACTTACAGTCTGCAAGACTA 689
 QY 868 CTGAATTCAGAGTCTGCTGAGAGAGAGCTGTGTTGAAGAGAGCGCTTCTGTCTGT 927
 DB 690 CTGAATTCAGAGTCTGCTGAGAGAGAGCTGTGTTGAAGAGAGCGCTTCTGTCTGT 749
 QY 928 AAAATCATGAATATGATGAGAGAAATTAAGACCCAGAGCTTACCCCGGTCTGGAAT 987
 DB 750 AAAATCATGAATATGATGAGAGAAATTAAGACCCAGAGCTTACCCCGGTCTGGAAT 809
 QY 988 CCTCAGGTTCAACCATATGATGAGAGAGCAATGTGTGTTGAAGAGATTAAGACACCTT 1047
 DB 810 CCTCAGGTTCAACCATATGATGAGAGAGCAATGTGTGTTGAAGAGATTAAGACACCTT 869
 QY 1048 TCTAAATGCTCAACCAAGATGCGCCGCTCTCAGGAGAGATATACAGTCCCTTG 1107
 DB 870 TCTAAATGCTCAACCAAGATGCGCCGCTCTCAGGAGAGATATACAGTCCCTTG 929
 QY 1108 ATCGATATGTTTAAATTAACCCAGCAGCGCTGCGCGAATTCACAAAGGTTAAATATTC 1167
 DB 930 ATCGATATGTTTAAATTAACCCAGCAGCGCTGCGCGAATTCACAAAGGTTAAATATTC 989
 QY 1168 ACGAGTCTTCCGAAAGATCCCAAGTTTACAGGATCAAGTTTGGTTGCAACCGGACTGAC 1227
 DB 990 ACGAGTCTTCCGAAAGATCCCAAGTTTACAGGATCAAGTTTGGTTGCAACCGGACTGAC 1049
 QY 1228 ATGATGAAGAGAGAGAGATGATCACTTCCGCACTGAGGAGCTCCCAAGAGCC 1287
 DB 1050 ATGATGAAGAGAGAGAGATGATCACTTCCGCACTGAGGAGCTCCCAAGAGCC 1109
 QY 1288 TTAATCAAGCTTTGCAAGAGAGATGATCACTGCTGCTCACTCCCGAGAGAGAGATGGC 1347
 DB 1110 TTAATCAAGCTTTGCAAGAGAGATGATCACTGCTGCTCACTCCCGAGAGAGAGATGGC 1169
 QY 1348 TGGCTCATATGAGAGAGAGAGATGATCACTGCTGCTCACTCCCGAGAGAGATGGC 1407
 DB 1170 TGGCTCATATGAGAGAGAGAGATGATCACTGCTGCTCACTCCCGAGAGAGATGGC 1229
 QY 1408 AAGTGTCTGAGAGAGAGATGATCACTGCTGCTCACTCCCGAGAGAGATGGC 1467
 DB 1230 AAGTGTCTGAGAGAGAGATGATCACTGCTGCTCACTCCCGAGAGAGATGGC 1289

QY 1468 GTGAGAGCATGAGACCGTGAATCTGTCTGAGAGATAGAGTGTGCAATCCCCCAGCC 1527
 DB 1290 GTGAGAGCATGAGACCGTGAATCTGTCTGAGAGATAGAGTGTGCAATCCCCCAGCC 1349
 QY 1528 GACTACTTGAATGTCTTATCATATGGGGAGAGTCCGCAAGAGAGACATATTCGACAG 1587
 DB 1350 GACTACTTGAATGTCTTATCATATGGGGAGAGTCCGCAAGAGAGACATATTCGACAG 1409
 QY 1588 AGGACATCCACTTTAAGGCCCCAGGCTCAAGCCGAGAGAGCGGCTCTTAAGATGCC 1647
 DB 1410 AGGACATCCACTTTAAGGCCCCAGGCTCAAGCCGAGAGAGCGGCTCTTAAGATGCC 1469
 QY 1648 AAGGGAGCTGCAAGAGCGCTTTCTGAGCGAGAGAAACCCCTTGGCCACTGAAATC 1707
 DB 1470 AAGGGAGCTGCAAGAGCGCTTTCTGAGCGAGAGAAACCCCTTGGCCACTGAAATC 1529
 QY 1708 GCGCCGAGCTGTGACCAATGATGCTGCGGACCCATCATATGATGAGAGAGAGAGAG 1767
 DB 1530 GCGCCGAGCTGTGACCAATGATGCTGCGGACCCATCATATGATGAGAGAGAGAGAG 1589
 QY 1768 CTCTCCGGGAGCTCTGCGGTTCTCCCTTGGGAGATGAGGCGCATCTGTCTGCAAGT 1827
 DB 1590 CTCTCCGGGAGCTCTGCGGTTCTCCCTTGGGAGATGAGGCGCATCTGTCTGCAAGT 1649
 QY 1828 GCTGAGCTGCGGAGCTTCAAGTGAAGAGAGGCTTAATGATGAGTGGCTGTTAAGCA 1887
 DB 1650 GCTGAGCTGCGGAGCTTCAAGTGAAGAGAGGCTTAATGATGAGTGGCTGTTAAGCA 1709
 QY 1888 TCATGCTTCTGTGTTCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1947
 DB 1710 TCATGCTTCTGTGTTCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1769
 QY 1948 AATAGCTTAATGAG 2007
 DB 1770 AATAGCTTAATGAG 1829
 QY 2008 AGTAACTTGTGTTCAATCTTTA 2030
 DB 1830 AGTAACTTGTGTTCAATCTTTA 1852

RESULT 4
 AK027109
 LOCUS
 DEFINITION
 Homo sapiens cDNA: FLJ33456 fis, clone HS107211, highly similar to
 AF119666 Homo sapiens insulin receptor tyrosine kinase substrate
 mRNA.
 AK027109
 VERSION
 oligo capping; fis (full insert sequence).
 KEYWORDS
 Homo sapiens (human)
 SOURCE
 ORGANISM
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homidae; Homo.

REFERENCE
 1
 Kawakami, T., Noguchi, S., Itoh, T., Shigeta, K., Senba, T.,
 Matsunura, K., Nakajima, Y., Mizuno, T., Morinaga, M., Tanigami, A.,
 Fujiwara, T., Ono, T., Yamada, K., Fujii, Y., Ozaki, K., Hiro, M.,
 Omori, Y., Ota, T., Suzuki, Y., Odayashi, M., Nishi, T., Shibahara, T.,
 Tanaka, T., Nakamura, Y., Isegai, T. and Sugano, S.
 NEDO human cDNA sequencing project
 Unpublished
 2 (bases 1 to 1580)
 SUGANO, S., SUZUKI, Y., OTA, T., ODAYASHI, M., NISHI, T., ISEGAI, T.,
 SHIBAHARA, T., TANAKA, T. and NAKAMURA, Y.
 Direct Submission
 Submitted (29-AUG-2000) Sumio Sugano, Institute of Medical Science,
 University of Tokyo, Laboratory of Genome Structure Analysis, Human
 Genome Center, Shirokane-dat, 4-6-1, Minato-ku, Tokyo 108-8639,
 Japan (E-mail: fitchd@ims.u-tokyo.ac.jp, Tel: 81-3-5449-5286,
 Fax: 81-3-5449-5416)

COMMENT
 NEDO human cDNA sequencing project supported by Ministry of

International Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology; cDNA library construction, 5' - & 3'-end one pass sequencing; Department of Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).

FEATURES
source location/Qualifiers
1..1580
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="HS107211"
/cissue_type="human small intestine"
/clone_id="HS1"
/note="Cloning vector pMB18SF13"

misc_feature
1..1580
/note="Highly similar to APL19666 Homo sapiens insulin receptor tyrosine kinase substrate mRNA"

ORIGIN

Query Match 74.4%; Score 1560; DB 8; Length 1580;
Best Local Similarity 99.6%; Pred. No. 1.4e-260;
Matches 1574; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

Oy 499 AAATTCACAAAGAGATTATCCATGAGCTGAGAGAAAGATGAACTTGACGTGAATAT 558
Db 1 AAATTCACAAAGAGATTATCCATGAGCTGAGAGAAAGATGAACTTGACGTGAATAT 60
Oy 559 ATGAACGCACTCTAAAAGATACCAACAGAACACAGAAATTAATTAGCTTTGGAG 618
Db 61 ATGAACGCACTCTAAAAGATACCAACAGAACACAGAAATTAATTAGCTTTGGAG 120
Oy 619 AAATCCCAAGCTGATGAGAGAGATGAGAGAAAGCAAGCAAGCAAGCAAGCAAG 678
Db 121 AAATCCCAAGCTGATGAGAGAGATGAGAGAAAGCAAGCAAGCAAGCAAGCAAG 180
Oy 679 AAATGAAACAAAGAAATGATGATGAGAGCCGTTACTTCTGTCAGATGAATC 738
Db 181 AAATGAAACAAAGAAATGATGATGAGAGCCGTTACTTCTGTCAGATGAATC 240
Oy 739 CAGAAATTCATTCAGATGCTGTCGAAAGAGCTCTGCTGGAAGAGAGAGAGAGAG 798
Db 241 CAGAAATTCATTCAGATGCTGTCGAAAGAGCTCTGCTGGAAGAGAGAGAGAG 300
Oy 799 TTTCTGTTGATGAGCACTGCTGCTTGCAGAACCAATATCATTTATCATTCAGTCT 858
Db 301 TTTCTGTTGATGAGCACTGCTGCTTGCAGAACCAATATCATTTATCATTCAGTCT 360
Oy 859 GCAGAACTAAGTATTCAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 918
Db 361 GCAGAACTAAGTATTCAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
Oy 919 GTGCCAGAGAAATCATGAAATATGATTCGAAAGAAATTAAGCCGAGCTCTACCCCG 978
Db 421 GTGCCAGAGAAATCATGAAATATGATTCGAAAGAAATTAAGCCGAGCTCTACCCCG 480
Oy 979 TCTGGAACCTCTCAGGCTTCAACCATGATGAGAGAGCAATGTGTTAGAAAGATTAC 1038
Db 481 TCTGGAACCTCTCAGGCTTCAACCATGATGAGAGAGCAATGTGTTAGAAAGATTAC 540
Oy 1039 GACACCTTTTAAATGCTTACCAAGATGCCCCGCTCTCTCAGGCAAGCATATACC 1098
Db 541 GACACCTTTTAAATGCTTACCAAGATGCCCCGCTCTCTCAGGCAAGCATATACC 600
Oy 1099 AGTCCCTTATGATATGTTTAAATTAACCGAGCAAGCTGCCCCGAAATTCACAAAGG 1158
Db 601 AGTCCCTTATGATATGTTTAAATTAACCGAGCAAGCTGCCCCGAAATTCACAAAGG 660
Oy 1159 AATTAATTCACAGGCTCTCCAGAGATCCAGATTTCAGAGCATGATTTGCTTGCACAG 1218
Db 661 AATTAATTCACAGGCTCTCCAGAGATCCAGATTTCAGAGCATGATTTGCTTGCACAG 720
Oy 1219 GAGCTGAACATGATGAAGAGCAAGAAATGAAGCACTTCCCGCACTGCGGGCTCC 1278

Db 721 GAGCTGAACATGATGAAGAGCAAGAAATGAAGCACTTCCCGCACTGCGGGCTCC 780
Oy 1279 AAAGAACTTACTACGCTTTGACAGAGAGATGATCATCAGCTCATCCCGAGAG 1338
Db 781 AAAGAACTTACTACGCTTTGACAGAGAGATGATCATCAGCTCATCCCGAGAG 840
Oy 1339 AAGGATGCTGCTCTATGAGAAACAGAGCTGCTCCAGAGCGGCTGTTCCCTCG 1398
Db 841 AAGGATGCTGCTCTATGAGAAACAGAGCTGCTCCAGAGCGGCTGTTCCCTCG 900
Oy 1399 TCGTACAGAACTTCTGAGAAATTAAGACAGAGAGATGAGCCGAGCCAGCAAG 1458
Db 901 TCGTACAGAACTTCTGAGAAATTAAGACAGAGAGATGAGCCGAGCCAGCAAG 960
Oy 1459 CCCACACAGTGAAGATGAGCAGCAGCTGTAATCTGTCAGAAATGAGATGTTGTCATC 1518
Db 961 CCCACACAGTGAAGATGAGCAGCAGCTGTAATCTGTCAGAAATGAGATGTTGTCATC 1020
Oy 1519 CCCCACCCGACTACTTGGAAATGCTTGTCCATGAGGAGAGCTGCGCAGAGAGAGAT 1578
Db 1021 CCCCACCCGACTACTTGGAAATGCTTGTCCATGAGGAGAGAGCTGCGCAGAGAGAGAT 1080
Oy 1579 TCGGCAAGAGAGATGACCTTTAAGGCCCGAGGTCAGAGCCGAGAGCCGAGCTCT 1638
Db 1081 TCGGCAAGAGAGATGACCTTTAAGGCCCGAGGTCAGAGCCGAGAGCCGAGCTCT 1140
Oy 1639 AACGATGCAAGCGGAGCTGCAAGAGCGGCTTTCTCAGCGAGAGAAACCCCTTGCAC 1698
Db 1141 AACGATGCAAGCGGAGCTGCAAGAGCGGCTTTCTCAGCGAGAGAAACCCCTTGCAC 1200
Oy 1699 GTGAATCTCCGCGGAGCTGTCAGAGATGATGCTGCGCAGCCATCATTCATGAGAG 1758
Db 1201 GTGAATCTCCGCGGAGCTGTCAGAGATGATGCTGCGCAGCCATCATTCATGAGAG 1260
Oy 1759 AGCGAAGAGCTCTCCCGGAGCTCTGCGGCTCTCCCTGCGAATGATGAGCGCATCTGT 1818
Db 1261 AGCGAAGAGCTCTCCCGGAGCTCTGCGGCTCTCCCTGCGAATGATGAGCGCATCTGT 1320
Oy 1819 CTGCCAGCTGTCAGAGCTGCGGAGCTTCAAGTGAAGAGGCTTAATCTTAATGCTGCTGC 1878
Db 1321 CTGCCAGCTGTCAGAGCTGCGGAGCTTCAAGTGAAGAGGCTTAATCTTAATGCTGCTGC 1380
Oy 1879 TTAAGCAATATCTGCTCTGCTTCAAGATGATGAGGCTTGAAGGCTTGAAGGCTTGAAG 1937
Db 1381 TTAAGCAATATCTGCTCTGCTTCAAGATGATGAGGCTTGAAGGCTTGAAGGCTTGAAG 1440
Oy 1938 ATTAATGATTAATGATTAATGAGCAGCTCAGCCATTTAAATATTTCTCTATCTG 1997
Db 1441 ATTAATGATTAATGATTAATGAGCAGCTCAGCCATTTAAATATTTCTCTATCTG 1500
Oy 1998 TTCAAGAAACAGTAAATCTGTTCAATCTTTAAATATTTCTCTATCTG 2057
Db 1501 TTCAAGAAACAGTAAATCTGTTCAATCTTTAAATATTTCTCTATCTG 1560
Oy 2058 AAAAAAAAAAAAAAAAAA 2077
Db 1561 AAAAAAAAAAAAAAAAAA 1580

RESULT 5
CQ730103 1491 bp DNA linear PAT 03-FEB-2004
LOCUS CQ730103
DEFINITION Sequence 16037 from Patent. W002068579.
ACCESSION CQ730103
VERSION CQ730103.1 GI:42303049
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1

AUTHORS	TITLE
Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W.	Kits, such as nucleic acid arrays, comprising a

humanhexons or transcripts, for detecting expression and other uses thereof

JOURNAL Patent: WO 02068579-A 16037 06-SEP-2002;
BE Corporation (NV) (finc)

QY 1857 GCCTAACTTAATGCGCCCTGCTTAAGCAATCA--TGCTTCTGTGTTTCACCTAGTGG 1914
DB 1719 CCTGATCTCAATGAACCCGACTTGAGCAATCAATGATTTCTGTTGATAGAGTGG 1778
QY 1915 GTTGCAAGTTTCTGCTTTAAGATTAATGATTAATGCTTAATGACCAAGCTCAGCCATT 1974
DB 1779 GCTTACACAAATTTTGTCTTAAGGTAATGAG---TAGCTTAGTCATTAATGAAATCGTT 1835
QY 1975 TAAATATTTTCTT 1988
DB 1836 TGAAGCTTTCTT 1849
RESULT 8
AK027142 2521 bp mRNA linear PRI 12-SEP-2003
LOCUS AK027142 Homo sapiens CDNA: FLJ23489 fls, clone LMG00746.
DEFINITION AK027142.1 GI:10440194
VERSION AK027142.1 GI:10440194
KEYWORDS oligo capping; fls (full insert sequence).
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Homo.
REFERENCE
AUTHORS 1
Kawakami,T., Noguchi,S., Itoh,T., Shigeta,K., Senba,T.,
Matsumura,K., Nakajima,Y., Mizuno,T., Morinaga,M., Tanigami,A.,
Fujiwara,T., Ono,T., Yamada,K., Fujii,Y., Ozaki,K., Hiroo,M.,
Ohmori,Y., Ota,T., Suzuki,Y., Obayashi,M., Nishi,T., Shibahara,T.,
Tanaka,T., Nakamura,Y., Iisogai,T. and Sugano,S.
NEBO human CDNA sequencing project
Unpublished
2 (bases 1 to 2521)
Sugano,S., Suzuki,Y., Ota,T., Obayashi,M., Nishi,T., Iisogai,T.,
Shibahara,T., Tanaka,T. and Nakamura,Y.
Direct Submission
Submitted (29-AUG-2000) Sumio Sugano, Institute of Medical Science,
University of Tokyo, Laboratory of Genome Structure Analysis, Human
Genome Center, Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639,
Japan (E-mail:fldna@ims.u-tokyo.ac.jp, Tel:81-3-5449-5286,
Fax:81-3-5449-5416)
NEBO human CDNA sequencing project supported by Ministry of
International Trade and Industry of Japan; CDNA full insert
sequencing: Research Association for Biotechnology; CDNA library
construction, 5'- & 3'-end one pass sequencing: Department of
Virology and Human Genome Center, Institute of Medical Science,
University of Tokyo (partly supported by Science and Technology
Agency).
FEATURES
SOURCE location/Qualifiers
1..2521
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="LMG00746"
/tissue_type="human lung"
/clone_lib="LMG"
/note="Cloning vector pME185FL3"
65..589
/note="unamed protein product"
/codon_start=1
/protein_id="BAB15671.1"
/db_xref="GI:10440195"
/translation="MMKKQKVTIFPHTAGSKTLLSPAGDVTLLIPKDKMLY
EHVSKARGPSPSYTKLENETEAIVTPSPSPRSTNVLSNSSSVTPPDY
LEICSMGAARBADSVRTTTPKVPKPEITAAPNDANGAKAPPFLSGENPFATVKL
RPVTYNDRSAPITR"
ORIGIN
Query Match 41.0%; Score 859; DB 8; Length 2521;
Best Local Similarity 99.4%; Pred. No. 6,6e-139;
Matches 862; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1164 TTCACAGGACTTCCGAAAGATCCAGTTTACAGCATGATTCGGTTGCCAAGGACT 1223
DB 1 TTCAAGAGTACTTCCGAAAGATCCAGTTTACAGCATGATTCGGTTGCCAAGGACT 60
QY 1224 GAACATGATGAAAGACAGAAAGTGAAGACCAATCTTCCGCACTGCGGGCTCCAACA 1283
DB 61 GAACATGATGAAAGACAGAAAGTGAAGACCAATCTTCCGCACTGCGGGCTCCAACA 120
QY 1284 GACCTTACTCAGTTTGCACAGGAGATGTCAATCAGCTGCTCATCCGAGAGAAAGA 1343
DB 121 GACCTTACTCAGTTTGCACAGGAGATGTCAATCAGCTGCTCATCCGAGAGAAAGA 180
QY 1344 TGGCTGGCTCTATGAGAAACAGAGCTGTCGAAGGGGAGGGTGGTCCCGTCGCTGA 1403
DB 181 TGGCTGGCTCTATGAGAAACAGAGCTGTCGAAGGGGAGGGTGGTCCCGTCGCTGA 240
QY 1404 CACGAAGTTGCTGAAGAAATGAGACAGAGCAGTGAACGTCGCCAAGCCCAAC 1463
DB 241 CACGAAGTTGCTGAAGAAATGAGACAGAGCAGTGAACGTCGCCAAGCCCAAC 300
QY 1464 ACCAGTGAAGATGATGACACCGTGAACCTTGTGTGAATGACAGTGTGTATCCCCC 1523
DB 301 ACCAGTGAAGATGATGACACCGTGAACCTTGTGTGAATGACAGTGTGTATCCCCC 360
QY 1524 ACCGACTACTTGAATGCTGTGTCATGAGGGGAGCGTCCGACAGAGAGCAGATTCCGC 1583
DB 361 ACCGACTACTTGAATGCTGTGTCATGAGGGGAGCGTCCGACAGAGAGCAGATTCCGC 420
QY 1584 CAGAGCAGATCACCCTTTAAGAGCCCGACGTCGAAGCCGAGACCGCGGCTCTAAGCA 1643
DB 421 CAGAGCAGATCACCCTTTAAGAGCCCGACGTCGAAGCCGAGACCGCGGCTCTAAGCA 480
QY 1644 TGGCAACGGGACTGCAAGAGCCGCTTTTCTAGCGGAGAAACCCCTTTGCCATGTGAA 1703
DB 481 TGGCAACGGGACTGCAAGAGCCGCTTTTCTAGCGGAGAAACCCCTTTGCCATGTGAA 540
QY 1704 ACTCGCCCGACTGACGAATGATCGCTGCGACCCATCTATGATGAGAGACAGCA 1763
DB 541 ACTCGCCCGACTGACGAATGATCGCTGCGACCCATCTATGATGAGAGACAGCA 600
QY 1764 AGGACTTCCCGGGGCTCTCGGTTCTCCCTTGCGGAATGATGAGCGCATCTGCTGCG 1823
DB 601 AGGACTTCCCGGGGCTCTCGGTTCTCCCTTGCGGAATGATGAGCGCATCTGCTGCG 660
QY 1824 ACGTCTACAGGTCGGGAGAGCTTCAGTGAAGAGGCTTAATATGTCGCTCTTAAG 1883
DB 661 ACGTCTACAGGTCGGGAGAGCTTCAGTGAAGAGGCTTAATATGTCGCTCTTAAG 720
QY 1884 CAATCATGCTTCTCTGTTTCAAGTATGAGTGGTTGACAAGTTTGCCTTAAGATAAT 1943
DB 721 CAATCATGCTTCTCTGTTTCAAGTATGAGTGGTTGACAAGTTTGCCTTAAGATAAT 780
QY 1944 GAGTAATAGTCAATGACCACTCAGCATTTAAATATTTCTTCTATCTGTTCAAG 2003
DB 781 GAGTAATAGTCAATGACCACTCAGCATTTAAATATTTCTTCTATCTGTTCAAG 840
QY 2004 AAACAGTAACCTGTTTCAATCTTA 2030
DB 841 AAACAGTAACCTGTTTCAATCTTA 867

RESULT 9
BX933564 2064 bp mRNA linear VRT 30-MAR-2004
LOCUS BX933564 Gallus gallus finished cdna, clone CHEST46B24.
DEFINITION BX933564
ACCESSION BX933564.2 GI:46017940
VERSION
KEYWORDS
SOURCE Gallus gallus (chicken)
ORGANISM Gallus gallus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
Phasianinae; Gallus.

REFERENCE
AUTHORS

1 (bases 1 to 2064)
Boardman, P.E., Bonfield, J.K., Brown, W.R.A., Gardner, C., Chalk, S.E.,
Crotting, M.D.R., Davies, R.M., Francis, M.D., Graham, D.V.,
Hubbard, S.J., Humphrey, S.J., Hunt, P.O., Maddison, M., McLaren, S.R.,
Miblett, D., Overton, I.M., Rogers, J., Scott, C.E., Taylor, R.G.,
Tickle, C. and Wilson, S.A.
Direct Submission

TITLE
JOURNAL

Submitted (29-MAR-2004) Sanger Institute, Hinxton, Cambridgeshire,
CB10 1SA, UK. E-mail enquiries: chicken@hinxton.ac.uk
On Apr 1, 2004 this sequence version replaced gi:41634092.

COMMENT

BBSRC/Dundee/Nottingham/Sanger/Sheffield/UMIST Gallus cdna
sequencing project.

This sequence is from the
BBSRC/Dundee/Nottingham/Sanger/Sheffield/UMIST cdna collection,
from a library constructed by Elizabeth Bosch. CDNA was prepared
from RNA extracted from whole embryo, normalised, and poly
A-tailed. EcoRI-NotI cut CDNA was then ligated into the vector.
Vector: pBluescript II KS(+); Site 1: EcoRI; Site 2: NotI Host:
Escherichia coli DH10B.

FEATURES

location/Qualifiers
1..2064
/organism="Gallus gallus"
/mol_type="mRNA"
/strain="White Leghorn, Hixex"
/db_xref="taxon:9031"
/clone_1ib="CHEST46B24"
/dev_stage="stage 10"

ORIGIN

Query Match 35.6%; Score 745.2; DB 5; Length 2064;
Best Local Similarity 69.8%; Pred. No. 3.7e-119;
Matches 1088; Conservative 0; Mismatches 443; Indels 27; Gaps 5;
QY 206 CGGCGCCAGCATGTCCTCCGGGGGGCCGAGAGAGTGAACGGCTCAGAGAGAGACTTACC 265
DB 30 CGCGCCGACCACTGTCGCGGAGACCCGAGAGAGTGAACAGCTTAACGAGAGAGACTTAA 89
QY 266 GGAATGTTATGGAACAGTTCATCTGCGGCTGCGAAATTTAATTAACCTGGGGAAAAAT 325
DB 90 AAAATGTTATGGAACAGTTCATCTGCGGCTGCGAAATTTAATTAACCTGGGGAAAAAT 149
QY 326 ATGAGAAGCTGTAAACGCTATGATCTGGCAGAGAAAGCTTAATGATGAGTGGCA 385
DB 150 ACGAAAAGCTGTAAATGCTATGCTAGTGGTGAAGATCATCTACGACAGTCTGGCAA 209
QY 386 AGATCGGTAGATGGCACTGGCTCCCGCTGTCATCTGAACCTGGGACATGCTCATAG 445
DB 210 AGATGGGGATATATAGCAGATTCACCTGTTTCTTAAGAGTTAGGCCAAGTCTGGTG 269
QY 446 AGATTCAGATCCCAAGAACTCAAGAGAGTCTTGATGAAAAATTTTAAAAAATTC 505
DB 270 AAATTCAGAAACACACAGAAACCTTAACAGAGCTGAGGAAAGTTTAAAGAAATTC 329
QY 506 ACAAGAGATTTATCATGAGCTGAGAGAGAGATGAAGTGAACCTTGAATATATAGAG 565
DB 330 ATAAAGAAATTTATATCTGAAGCTGAGAGAGAAACACACCTGATGTAAATATACAT 389
QY 566 CAATCTTAAATTAATACCAAGAGACAGACAGAAATTAATTAAGTCTTTGGAGAAATCC 625
DB 390 CGACTTTAAAGAGTACCAACAGAAACAGAAATTAATTAAGTCTTTGGAGAAATCC 449
QY 626 AAGCTGATGAAGAGATCAGAGAGAAAGCCAGAGAGCCGAAACGCACTCAATATATG 685
DB 450 AAGCTGATGAAGAGATCAGAGAGAAAGCCAGAGAGCCGAAATGTAAATATATAG 509
QY 686 AACACAAAGAAATTTAGTATGTGAGACCGTTACTTCTGTCAGAGTGAATTCAGAAAT 745
DB 510 AGCATTAAGAAAGAGATATTTGAAACCGTGAAGCTCTCAACAGACTGACATTCAGAGAT 569
QY 746 TCATTTGAGATGGTGCAGAGAGAGCTCTGCTTGAAGAGAGAGAGCGCTCTGCTTTCTG 805
DB 570 TTATTTGCTGAAGGCTGTAGAGAGCTTACTTGAAGAGAGAGAGAGATTTCTGTTTCTAG 629

QY 806 TTGATTAAGACATGCTGCTTTCGCAACACATACATTAATATATCACTTAACAGTCTGAGAAC 865
DB 630 TTGATTAAGACATGCTGCTTTCGCAACACATACATTAATATATCACTTAACAGTCTGAGAAC 869
QY 866 TACTGATTTCCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 925
DB 690 TCTTCAAGCCAGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 749
QY 926 AGAAATATGAT 985
DB 750 AAAAAGTCAAAAT 809
QY 986 CTCTCAAGCTTTCACCCATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1045
DB 810 CTCCGAGCTTTCACCAATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 869
QY 1046 TTTCTTAATGCTCAACCAAGATGCCCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1105
DB 870 ATAAATGAATGATCAAAAG 929
QY 1106 TGATGAT 1162
DB 930 TTGATGAT 989
QY 1163 ATTCAACAGGATCTTCCGAAAGTCCAGTTTACAGGATCAAGTTTCCGTTTCCGTTTCCG 1222
DB 990 ACCGAGAGAGATTCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1049
QY 1223 TGAACATGATGAAG 1282
DB 1050 TAAAT 1109
QY 1283 AGACCTTACTCAGCTTGTGACAGAGAGATGTCATCAAGCTGTCATCCCGAGAGAGAGAG 1342
DB 1110 AGACATTAATTAATGCTTGTGACAGAGAGATGTCATCAAGCTGTCATCCCGAGAGAGAG 1169
QY 1343 ATGGCTGCTCTATGAG 1402
DB 1170 ATGGCTGCTCTATGAG 1229
QY 1403 ACACAGAGTGTGAG 1462
DB 1230 ATACACAGACACTAGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1286
QY 1463 CACAGTGAAGAGATCAGACACGTAACCTTCTGAGAGATGAGAGATGAGAGATGAGAGAT 1522
DB 1287 CGCGGTTAGAGATTAATGCTGAGTGAATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1346
QY 1523 CACCGCATCTTGTGAATGCTGCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1582
DB 1347 CGCGAGACTATCTGGGTT-----CAACTTCAAGTAAAGAGATGAGAGATGAGAGAT 1391
QY 1583 CCAGAGCAGATTCACCTTAAAGGCCAGCGTCCAAAGCCGAGAGAGAGAGAGAGAGAGAGAG 1640
DB 1392 CCAAGGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1448
QY 1641 -CGATGCCAAGCGGAGCTGCAAAAGCGCTTTTCTCAGCGAGAGAGAGAGAGAGAGAGAGAG 1699
DB 1449 CCGACATGATGAGATGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1508
QY 1700 TGAATATCTGCGCCGAGCTGAGAGATGAGAGATGAGAGATGAGAGATGAGAGATGAGAGAT 1757
DB 1509 TGAATATCTGAGACCAACAGTGAACAAATGAGAGATGAGAGATGAGAGATGAGAGATGAGAGAT 1566

RESULT 10

AK074419 2296 bp mRNA linear PRI 12-SEP-2003
LOCUS Homo sapiens CDNA FLJ23839 fls, clone KAT02564.
DEFINITION AK074419
ACCESSION AK074419
VERSION AK074419.1 GI:18677016
KEYWORDS oligo capping; fls (full) insert sequence.

SOURCE
ORGANISM Homo sapiens (human)

REFERENCE
AUTHORS Watanabe, K., Kumagai, A., Itakura, S., Yamazaki, M., Tashiro, H., Ota, T., Suzuki, Y., Ohashi, M., Nishi, T., Shibahara, T., Tanaka, T., Nakamura, Y., Isogai, T. and Sugano, S.
TITLE NEDO human cDNA sequencing project
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 2296)
AUTHORS Sugano, S., Suzuki, Y., Ota, T., Ohashi, M., Nishi, T., Isogai, T., Shibahara, T., Tanaka, T. and Nakamura, Y.
TITLE Direct Submission
JOURNAL Submitted (14-FEB-2002) Sumio Sugano, Institute of Medical Science, University of Tokyo, Laboratory of Genome Structure, Human Genome Center, Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639, Japan (E-mail: flicdn@ims.u-tokyo.ac.jp, Tel: 81-3-5449-5286, Fax: 81-3-5449-5416)

COMMENT
NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction; 5'- & 3'-end one pass sequencing; Department of Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).

FEATURES
source
1. 2296
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="KAT02564"
/cell_line="KATO III"
/cell_type="signet-ring cell carcinoma"
/clone_11b="KAT"
/note="cloning vector: pME18SFL3"

ORIGIN
Query Match 32.0%; Score 671; DB 8; Length 2296;
Best Local Similarity 100.0%; Pred. No. 2.8e-106;
Matches 671; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1360 GAACACGAGCTGTCCAGAGCGGGGTTGTTCCCGTGTCTGTACAGAGTGTCTGGA 1419
DB 1 GAACACGAGCTGTCCAGAGCGGGGTTGTTCCCGTGTCTGTACAGAGTGTCTGGA 60
QY 1420 GAACATGAG 1479
DB 61 GAACATGAG 120
QY 1480 AGACACCGTGAACCTGTGTGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1539
DB 121 AGACACCGTGAACCTGTGTGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
QY 1540 TGCTTTGTCATGAG 1599
DB 181 TGCTTTGTCATGAG 240
QY 1600 TTTAAGGCGCCAG 1659
DB 241 TTTAAGGCGCCAG 300
QY 1660 AAGCGCGCTTTTCTCAG 1719
DB 301 AAGCGCGCTTTTCTCAG 360
QY 1720 ACGAATATGCTGTGCGAG 1779
DB 361 ACGAATATGCTGTGCGAG 420
QY 1780 TCTCGGCTTCTCCGTGCGAG 1839
DB 421 TCTCGGCTTCTCCGTGCGAG 480

QY 1840 GAAGCTTCAGTGAG 1899
DB 481 GAAGCTTCAGTGAG 540
QY 1900 GTTTCAGTATGAG 1959
DB 541 GTTTCAGTATGAG 600
QY 1960 ACCAGCTCAGCAGATTTAAATATTTCTTCTATCTGTGTCAAGAAACAGTAACCTGGT 2019
DB 601 ACCAGCTCAGCAGATTTAAATATTTCTTCTATCTGTGTCAAGAAACAGTAACCTGGT 660
QY 2020 TTCAATCTTTA 2030
DB 661 TTCAATCTTTA 671

RESULT 11
BC061676
LOCUS
DEFINITION
Xenopus laevis hypothetical protein MG66822, mRNA (cDNA clone
MG66822 IMAGE:4633564), complete cds.
ACCESSION
BC061676
VERSION
BC061676.1 GI:38197625
KEYWORDS
MGC.

SOURCE
ORGANISM
Xenopus laevis (African clawed frog)
Xenopus laevis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;
Xenopodinae; Xenopus; Xenopus.
1 (bases 1 to 3616)
Klein, S.L., Strausberg, R.L., Wagner, L., Pontius, J., Clifton, S.W.
and Richardson, P.
Genetic and genomic tools for Xenopus research: The NIH Xenopus
Initiative
Dev. Dyn. 225 (4), 384-391 (2002)
12454917
2 (bases 1 to 3616)
Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,
Dietzschko, L., Marusik, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullahy, S.J., Bosak, S.A., McMan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Morley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hult, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, E., Kettelman, M., Madan, A., Rodriguez, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shcherbenko, Y.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalka, U., Smalke, D.E.,
Scherer, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
12477932
3 (bases 1 to 3616)
Klein, S. and Strausberg, R.
Direct Submission
Submitted (05-NOV-2003) National Institutes of Health, Xenopus Gene
Collection (XGC), National Institute of Child Health and Human
Development, 6100 Executive Boulevard, Room 4B01, Rockville, MD
20892-7510, USA
NIH-MGC Project
Contact: XGC help desk
Email: gcgaps-remail.nih.gov
Tissue Procurement: Dr. Igor Dawid
cDNA Library Preparation: Life Technologies, Inc.

REMARK
COMMENT

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (HLNI)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC),
Gaithersburg, Maryland;
Web site: <http://www.nisc.nih.gov/>
Contact: nisc.mc@nih.gov

Ahler, N., Ayale, K., Beckstrom-Sternberg, S.M., Benjamin, B.,
Blakesley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooke, S.,
Dietrich, N.L., Granite, S., Guan, X., Gupta, V., Haight, P.,
Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Latic, P., Legaspi, R.,
Maduro, Q.L., Mastello, C., Maskell, B., Mastrian, S.D., McCloskey, D.C.,
McGowan, J., Pearson, R., Stantipop, S., Thomas, P.J., Touchman, J.W.,
Tursgon, C., Vogt, J.L., Walker, M.A., Wetherby, K.D., Wiggins, L.,
Young, A., Zhang, L.-H. and Green, E.D.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/HLNI, at: <http://image.llnl.gov>
Series: IRAX Plate: 128 Row: P Column: 13.
Location/Qualifiers

FEATURES

SOURCE

1..3616
/organism="Xenopus laevis"
/mol_type="mRNA"
/db_xref="taxon:8355"
/clone="MGC:68822 IMAGE:4633564"
/tissue_type="lung, adult Xenopus"
/clone_lib="NICHD_XGC_Lul"
/lab_host="DH10B"
/note="vector: PCMV-SPOrt6"
1..3616
/gene="MGC68822"
/db_xref="GeneID:398987"
115..1641
/gene="MGC68822"
/codon_start=1
/product="MGC68822 protein"
/protein_id="AAH61676.1"
/db_xref="GI:38197626"
/db_xref="GeneID:398987"
/translation="MSRPDAVAKITESTRYVNOFNLNLVNLGRYKAVAAV
VOGRAVYDGVAMGBLSASIVSKELGVLEISVHRLNDNLLENKRRHREVA
ELERTDIDIKYMAATLKRQTEHKNKVDLSKSDLDKLRKSGGENTKREIK
SEYVETITSROSEINKFIQGRREALERKRCFLVNDHCTFSNINIFVQAVDL
TSKLRMOETCSDIQVPTVNVIMODLTPTVSTPSASBPSPMLDKALMAGDLY
RNTLRMPAPORTAOTSPLVDENKPKPVOKLTFDNPRTSGESQEBGLTPRSMSVAT
GINOMKRRKVTITPESGNGSTOMSFOSDITLILPEKDDGLVEHHTTKYKGF
SSYTRPLENREPLKVPVSVPAPVRSLSITANLYKSGVLPEDVLEPMSKRS
SSNNNRGTYTFSLAKDPPSPSTANGTINHPLSGENPSTTKLRPTVNDKSAPIIR
"

CDS

gene

misc_feature
1132..1311
/gene="MGC68822"
/note="SH3; Region: Src homology 3 domains"
/db_xref="CDD:smatc00326"

ORIGIN

Query Match 28.4%; Score 594.4; DB 5; Length 3616;
Best Local Similarity 65.1%; Pred. No. 5.7e-93;
Matches 1014; Conservative 0; Mismatches 511; Indels 33; Gaps 8;
208 GCCGACCATGTCCTCCGGGGGCGGAGAGGTGAACCGGCTCAGAGAGACCACTTACCGG 267
106 GACGTCATGTCCTCCGGGAGCGAGACCGGTGCAAGATCAAGAGACAGTAAAGG 165
268 AATGTTATGAAAGATTCATCTCGGGCTGCGAAATTTAATTAACCTGGGAAAAATTAAT 327
166 AATGTTATGAAATCACTTCAACCTTGGGTTAAGAAATCTTGTTAATCTTGAAGGAATAT 225
328 GAGAAAGCTGTAAACGCTATGATCTTGGCAGAGAAAGCTTACTAGATGAGTGGCAAG 387
226 GAAAAAGCAATGGAGCAATGTGTCAGGAGAGAAAGACGTAATTAATGATGAGTGGCAAG 285
388 ATGCGTGAATGTCGATGGGTCCCGCTGTGCACTGAATGAGCAATGTCCTCATAGAG 447
286 ATGGGCAATATGGCTCTGCAATCTCATGTAACAAAAGCTAAGGCAAGTAACTTCTGGAG 345

448 ATTCAAGTACCAAGAAAGCTCAAGAGTCTTGATGATAAATTTAAAAATTTCCAC 507
346 ATTTCCATCGTTCACAAAGGCTGAATGACACTTGAAGAAAAATTTAAAAATTCAC 405
508 AAGAGATTTATCATGAGCTGAGAGAAAGAAATGAATGAACCTTGAACGGAATATGACGA 567
406 AGAAGATTTGTTGACGAGCTGAGAGAAAGCTGATCAAGTATTAAGTATATGAAATGCC 465
568 ACTTAAAAAGATACCAAGCAAGAAACAGAAATTAATGAGTCTTGAAGAAATCCCA 627
466 ACCCTTAAGAGTACAGAGAGCAAGAAATTAATGAGTCTTGAAGAAATTCGAA 525
628 GCTGAGTTGAAGAGATCAGAGAGAAAGCCAGAGAGCCGAAACGACTCAATATGAA 687
526 TCAGATCTAAAGAAAGCTCAAGCGAAAGATCAAGAGAGAAAGCTCAATTAATGAA 585
688 CACAAAGAAATTAAGTATGAGAGACCGTTACTCTGTCAGAGTGAATCAGAAATTC 747
586 ATTAAGAAATCCGAGTATGAGAAACCTAACGTCAGACAGTGGAGATTAATTAATTC 645
748 ATTCAGATGTTGCAAGAGGCTCTGCTGAGAGAGAGAGGCGCTTCTGCTTCTGTT 807
646 ATAGCGAGGCTGCAAGAGGCTCTGCTGAGAGAGAGAGAGAGATCTGTTCTTATGTC 705
808 GATTAAGCATGTCGCTTTCGAAACCACTTATTTATCTTACAGTCTGCAAGTAA 867
706 GACAAACATCAGCTTCTGCAATTTATTCATATTTTCACAGTACAGCTGTGATCTA 765
868 CTGAATTCAGAGCTGCTGCTGAGAGAGAGCTGTGTTGATGACATCAAGATGCGAAG 927
766 CTGACCTCAGAGCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 825
928 AAAATCATGAATATGATGAGAGAAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 987
826 ACAGCTGTTAATATATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 885
988 CCTGAGCTTCAAGCATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1047
886 CTGAG 939
1048 TCTAATGCTCAAG 1107
940 TATAG 999
1108 ATGATATGTTAATTAAG 1162
1000 GTTGAATGTTAATTAAG 1059
1163 ATTCAA-CAGTATCTTCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1221
1060 TCACAAAG 1119
1222 CTGAATGATGAG 1281
1120 TTGAATCAATTAAG 1176
1282 AAGACCTTATCTGAGCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1341
1177 AGCAGCAGATGAGCTTTCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1236
1342 GATGCTGCTCTATGAG 1401
1237 GATGCTGCTGCTGAG 1296
1402 TACAGAGATGCTGAG 1455
1297 TATACAG 1356
1456 AGCCCAACACAGTGAAG 1515
1357 AGTCTGCTCAGTCCGAGTCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1416

QY 1516 ATCCCCCAACCGGACTTGGATGCTTTCATGAGGGGAGCTGCGGAGAGAGCA 1575
DB 1417 CTCGCCGAAACCGGATATTGGAAACCAATGTC--TGGAAAGCGATGACAGAGAA 1474
QY 1576 GATTGGGCGGAGACGATCCACTTTAAAGCCCGAGCTCCAGCCGAGACCGGCGT 1635
DB 1475 ATAGCAACCGGGAGATACA-----CTTTCAGCCAC-----TCATTGCCAAAGATCCTCT 1524
QY 1636 CCTTAAGATGCGCAACGGGAGCTGCAAGGCGGCTTTCTGAGGGGAGAAACCCCTTGGC 1695
DB 1525 CCTTCAACTGCAAAATGCGATCATCTTCAATTCATTTCTAAGTGAAGAAACCATTTTTC 1584
QY 1696 ACTGTGAATCTCGCCCGGACTGTGAGCAATGATCGCTCGGCAACCATCATTCGATGAG 1753
DB 1585 ACCATCAAGCTCCGACCAACCGGTAACAATGACCGATCTGGCCCAATCATTCGATGAG 1642

RESULT 12
AX379210 559 bp DNA linear PAT 18-MAR-2002
LOCUS DEFINITION Sequence 252 from Patent WO0196389.
AX379210
ACCESSION AX379210
VERSION AX379210.1 GI:19575050
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Meagher,M.J., King,G.E., Xu,J. and Secrist,H.
TITLE Compositions and methods for the therapy and diagnosis of colon
JOURNAL Cancer
COMMENT Patent: WO 0196389-A 252 20-DEC-2001;
CORIXA CORPORATION (US)
FEATURES
source
1..559
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 26.5%; Score 556; DB 6; Length 559;
Best Local Similarity 99.5%; Pred. No. 2.3e-86;
Matches 556; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 863 AACCTAATTCCTCAAGCTGCTCGTGGCAGAGAACTCTGTGATGCTCAAAAGTGC 922
DB 1 AACCTAATTCCTCAAGCTGCTCGTGGCAGAGAACTCTGTGATGCTCAAAAGTGC 60
QY 923 CAGAGAAATCATGATATGATCGAAGAAATTAAGACCCGCTCTACCCCGGTGTG 982
DB 61 CAGAGAAATCATGATATGATCGAAGAAATTAAGACCCGCTCTACCCCGGTGTG 120
QY 983 GAATCTCTCAGGCTTACCCATGATCGAAGAAATGATGTTAGAAAGATTACGACA 1042
DB 121 GAATCTCTCAGGCTTACCCATGATCGAAGAAATGATGTTAGAAAGATTACGACA 180
QY 1043 CCGCTTTCTAATGCTCAACAAAGATGCGCCGCTCTTTCAGGAGAGCATATACGATC 1102
DB 181 CCGCTTTCTAATGCTCAACAAAGATGCGCCGCTCTTTCAGGAGAGCATATACGATC 240
QY 1103 CCGTGTGATGATGTTTAAATACCGAGCAAGGCTGCGCGAATTCACAAAGGGTAAATA 1152
DB 241 CCGTGTGATGATGTTTAAATACCGAGCAAGGCTGCGCGAATTCACAAAGGGTAAATA 300
QY 1163 ATTCAACAGGATCTTCGGAAGATCCAGTTTACAGCATGATTCGGTTGCAACGGGAC 1222
DB 301 ATTCAACAGGATCTTCGGAAGATCCAGTTTACAGCATGATTCGGTTGCAACGGGAC 360
QY 1223 TGAACATGATGAAGAGAGAAAGTGAAGACCATTTCCCGACACATCGCGGGCTTCAACA 1282
DB 361 TGAACATGATGAAGAGAGAAAGTGAAGACCATTTCCCGACACATCGCGGGCTTCAACA 420

QY 1283 AGACCTTACTGACGCTTTTGCACAGGAGATGTCATACGCTGCTCATCCCGAGAGAAAG 1342
DB 421 AGACCTTACTGACGCTTTTGCACAGGAGATGTCATACGCTGCTCATCCCGAGAGAAAG 480
QY 1343 ATGGCTGCTCTATGAGAAACAGACGATGTCGAAGGAGGAGGTTCCCGTGTCTGT 1402
DB 481 ATGGCTGCTCTATGAGAAACAGACGATGTCGAAGGAGGAGGTTCCCGTGTCTGT 540
QY 1403 ACACGAAGTTGCTGGAAGA 1421
DB 541 ACACGAAGTTGCTGGAAGA 559

RESULT 13
BX931244 685 bp mRNA linear VRT 02-FEB-2004
LOCUS DEFINITION Gallus gallus finished cdna, clone CHEST261d10.
BX931244
ACCESSION BX931244
VERSION BX931244.1 GI:41631772
KEYWORDS
SOURCE Gallus gallus (chicken)
ORGANISM Gallus gallus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
Phasianinae; Gallus.
REFERENCE
AUTHORS Boardman,P.E., Bonfield,J.K., Brown,W.R.A., Carder,C., Chalk,S.E.,
Croning,M.D.R., Davies,R.M., Francis,M.D., Grafton,D.V.,
Hubbard,S.J., Humphray,S.J., Hunt,P.J., Maddison,M., McLaren,S.R.,
Nisbett,D., Overton,I.M., Rogers,J., Scott,C.E., Taylor,R.G.,
Tickle,C. and Wilson,S.A.
TITLE Direct Submission
JOURNAL Submitted (02-FEB-2004) Sanger Institute, Hinxton, Cambridgeshire,
COMMENT Submitted (02-FEB-2004) Sanger Institute, Hinxton, Cambridgeshire,
B810 1SA, UK. E-mail enquiries: chickens@hms.ums.ac.uk
BBSRC/Dundee/Nottingham/Sanger/Sheffield/UMIST Gallus gallus cdna
sequencing project.
This sequence is from the
BBSRC/Dundee/Nottingham/Sanger/Sheffield/UMIST cdna collection,
from a library constructed by Elizabeth Bosch. cdna was prepared
from RNA extracted from ovary, normalized, and poly A-tailed.
ECORI-NotI cut cdna was then ligated into the vector. Vector:
pBluescript II KS(+); Site_1: EcoRI; Site_2: NotI Host: Escherichia
coli DH10B.

FEATURES
source
1..685
/organism="Gallus gallus"
/mol_type="mRNA"
/strain="Layer"
/db_xref="taxon:9031"
/clone="CHEST261d10"
/clone_1ib="CSGRBN21"
/dev_stage="adult"

Query Match 18.9%; Score 397; DB 5; Length 685;
Best Local Similarity 73.7%; Pred. No. 9.2e-55;
Matches 505; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

QY 174 CCAGCCGCTCTCCCGGCTGCTGCGCCGCGGCGGAGCAATGTCGCGGGGCGCGGA 233
DB 1 CCCGAGCGCTCTCCCGGAGAACGAGCGTGTCCCGCGGAGCAATGTCGCGGAGCCCGGA 60
QY 234 GGAGTGAACCGGCTCAACGAGACACTTACCGGAATGTTATGGAACAGTTCAATCTCGG 293
DB 61 GGAGTGAACCGGCTCAACGAGACACTTACCGGAATGTTATGGAACAGTTCAATCTCGG 120
QY 294 GCTGCGAAATTTAATTAACCTGCGGAGAAATTAATGAGAAAGCTTAAACCTATGATCT 353
DB 121 ACTGCGAAATTTAATTAATCTGCGGAGAAATTAATGAGAAAGCTTAAATGATGAT 180
QY 354 GGCGAGAAAGCTTACTGATGAGAGTGGCCAGATGCGTGAATTCCTGCGGCTCCCG 413

Db 181 GGCTGGAAGATCATATCAAGACAGCTGCGCAAAAGATTGGGGATATATACAGCATTCACC 240
 Oy 414 CGTGTCACTGAACTGGACATGCTCTCATAGAGATTTCAAGTACCACAAAGAACTCA 473
 Db 241 TGTTCCTTAAGAGTAAAGCCAGTCTGCTGTAATTTCAAGACCAAGCAAACTTAA 300
 Oy 474 CGAGAGCTTGTAGTAAATTTTAAATTTCCACAAAGATTTATTCATGAGCTGAGAA 533
 Db 301 CGACAGCTGTGGAGAAAGTTTAAAGAAATTTATTAAGAAATTTATATCTGAAGTGAAGA 360
 Oy 534 GAAGTATCACTGTCGTAAGTATATATGAAAGCACTCTAAAGAAATTCACCAAGAAACA 593
 Db 361 GAAACACAGACCTGGATGTAAATTAATCAATGCCGCTTTAAAGAGTACCAACGAAACA 420
 Oy 594 CAAGATTAATTAATTAAGTCTTTTGGAGAAATCCCAAGCTGAGTTGAAGAGATCAAGAA 653
 Db 421 CAGAAATTAATTTGATTCCTCTGGAGAGTCTCAGGCTGAGCTGAAGAAAAATTCGAAGAA 480
 Oy 654 AAGCCAGAGAGCCGAAAGCAGCTCAATATATGACACAAAGAAATTTAGTATGTGAGAC 713
 Db 481 AAGCCAGAGAGCAGCAATGTAAATGAATAATACAGCAATTAAGAAATGAGATTTTGGAAAC 540
 Oy 714 CGTATCTCTGCTGAGAGTGAATCCAGAAATTCATGAGATGAGTTGCAAGAGGCTCT 773
 Db 541 CGTGGCTCTGACAGACTGACATTCAGAGATTTATGCTGTAAGGCTGTAGAGAACTCT 600
 Oy 774 GCTTGAGAGAGAGAGAGCGCTCTGCTTCTGCTTGTGATTAAGACCTGCTTGGCAACCA 833
 Db 601 ACTTGAAGAAAAAAGAAAGATTCCTGTTTCTAGTTGACAGACCTGAGATTTTACCAAGCA 660
 Oy 834 CATACATTTATTTTCACCTTCACTCT 858
 Db 661 CATGCACTTCTATCACTGCTCACTGT 685
 RESULT 14
 LOCUS BC068330 2563 bp mRNA linear VMT 30-MAR-2005
 DEFINITION Danto rerio BA11-associated protein 2-like 1, mRNA (cDNA clone
 MGC:85624 IMAGE:5525249), complete cds.
 ACCESSION BC068330
 VERSION BC068330.1 GI:46249678
 KEYWORDS MGC:
 SOURCE Danto rerio (zebrafish)
 ORGANISM Danto rerio
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Actinopterygii; Neopterygii; Teleostei; Ostariophysi;
 Cypriniformes; Cyprinidae; Danto.
 REFERENCE 1 (bases 1 to 2563)
 AUTHORS Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
 Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
 Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
 Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,
 Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
 Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
 Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
 Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
 Abramson, R.D., Malek, J.A., Gunaratne, P.H., Richards, S.,
 McKernan, K.J., Mullik, S.J., Bosak, S.A., McEwan, P.J.,
 Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hultik, S.W.,
 Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
 Fahy, J., Helton, B., Kettner, M., Madan, A., Rodriguez, S.,
 Sanchez, A., Whitting, M., Madan, A., Young, A.C., Shevchenko, Y.,
 Bouffard, G.G., Blakeley, R.W., Touchman, J.W., Green, E.D.,
 Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
 Butlerfield, Y.S., Krzywinski, M.I., Skalski, U., Smalton, D.E.,
 Scherch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
 Mammalian Gene Collection Program Team
 Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences
 Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
 JOURNAL 12477932
 PUBMED 12477932
 REFERENCE 2 (bases 1 to 2563)

AUTHORS NIH MGC Project
 CONSRM Direct Submission
 TITLE Submitted (02-APR-2004) National Institutes of Health, Mammalian
 JOURNAL Gene Collection (MGC), Bethesda, MD 20892-2590, USA
 REMARK NIH-MGC Project URL: <http://mgc.nci.nih.gov>
 COMMENT Contact: MGC help desk
 Email: cgabs-remail.nih.gov
 Tissue Procurement: Leonard I. Zon, M.D.
 cDNA Library Preparation: Invitrogen Corp
 DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
 Center, Stanford University School of Medicine, Stanford, CA 94305
 Web site: <http://www.shgc.stanford.edu>
 Contact: (Dickson, Mark) mcd@paxil.stanford.edu
 Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IRAC Plate: 165 Row: D Column: 19
 This clone was selected for full length sequencing because it
 passed the following selection criteria: matched mRNA gi: 38708008.

FEATURES

SOURCE 1..2563
 /organism="Danto rerio"
 /mol_type="mRNA"
 /db_xref="taxon:7955"
 /clone="MGC:85624 IMAGE:6525249"
 /tissue_type="Kidney, zebrafish"
 /clone_id="NCI CGAP_ZK1d1"
 /lab_host="DH10B"
 /note="vector: pcMV-SPORE6.1"
 1..2563
 /gene="da1ap211"
 /note="synonym: cb1023, zgc:85624, loc55971"
 /db_xref="GeneID:387261"
 /db_xref="ZFIN:ZDB-GENE-031201-1"
 139..1596
 /gene="da1ap211"
 /codon_start=1
 /product="da1ap211 protein"
 /protein_id="AAH68330.1"
 /db_xref="GI:46249679"
 /db_xref="GeneID:387261"
 /db_xref="ZFIN:ZDB-GENE-031201-1"
 /translation="MSRASEDVNKLTESTYKNMFOFNPGLRNVLNGLKYSVAAM
 TFAKAYDPAISKIGESAIVSPVSEKLVLEISVHKNQLEMESEKFKELKILIA
 ELEKTDMDTKMTATFPKRYOGEHLKODFLDKSADIKQARKQGRKSSRYEIKEN
 RCMETISSRQDMORFIADGCKEALIEKRRFCPLVDKICALSYLSAFHDAKEMLT
 LKLPWOKRQDANRVPDVTISMIEGLRTSMVPESSPTLRSRTNSGSIVPPAP
 SIKARTSPLASMFQSEAKRSPSSQYSDQSDLDENGLSRTSVSGMDPTAKRTVOT
 IEPHRTAGNNETLSEDEDITILIQEERDGLVGELEHTGQGRMFPSSYCGSVETT
 IPNWSBEPFSSHIDLPQOEDESEVEEVLPPDYSDSSSRDPIKSTPSSQSTVS
 LANGSMPPFLGGNPFATVLRPLVTNDRSAPII"

CDS

ORIGIN
 Query Match 18.3% Score 382.6; DB 5; Length 2563;
 Best Local Similarity 60.0%; Pred. No. 3,2e-56;
 Matches 712; Conservative 0; Mismatches 439; Indels 36; Gaps 3;
 217 ATGTCCCGGGGGCCGAGAGAGGTGAACCGCTACAGAGAGACCTACCGGAATGTTATG 276
 Db 139 ATGTCTCGAGCTCTGGAGAGACTGAACCAACTACCGAGAGACATACGAATGTGATG 198
 Oy 277 GAACAGTTCAATCTGGGCTGGGAAATTTAATTAACCTGGGGGAAATTTATGAGAAAGCT 336
 Db 199 GAACAGTTCAACCCAGAGAGCTGGGAATCTGTAACTCTGGGGAAGAACTATGGAATACA 258
 Oy 337 GTTAAAGCTATATCTCTGAGAGAAAGCTCTAGATGAGAGTGGCCAAAGATCGGTGAG 396
 Db 259 GTTGACGACATGACCTTTGCGGAAAGGCTTATTTTATGACACTCTCAAAAATAGGGGAA 318

Db 396 GTGCAAGAAGCCCAATTGGAGATGGAGAGTCTTTCAAGAGTTCCACAAGAGCTC 455
QY 517 ATCCATGAGCTGAGAGAAAGATAGAACTTGAAGTGAATATATGACGCAACTCTAAA 576
Db 456 ATTGCTGAATGGAAAAGAAAACCTGATATGATACCAAGTACATGACTGCCACTTTTAA 515
QY 577 AGATACCACAAGAACACAAATTAATTAAGTCTTTGGAGAAATCCCAAGCTGATGG 636
Db 516 AGATACCGATGACACAAATTAAAGCAAGACTTCTGGACAAATTCAGAGCTGACCTG 575
QY 637 AAGAAGATCAGAGAGAAAAGCCAAAGAAAGCCAAACGCACTCAATATGACACAAAGA 696
Db 576 AAGAAGATCAGAGAGAAAAGCCAAAGAAAGCCAAACGCACTCAATATGACACAAAGA 632
QY 697 ATTGAGTATGGAGAGCCGTTACTTCTGTCAGAGTGAATTCAGAAATTCATTGCAGAT 756
Db 633 AATGAGTCAATGAGACCATCTATCCGCGACAGACATGACAGAGTTTATTCAGAT 692
QY 757 GGTTCGAAAGAGGCTCTGTTGAGAGAGAGAGGCGCTTCTGCTTCTGTTGATTAAGCAC 816
Db 693 GATGTAAAGAGGCTTTTACTAGAGAGAAAAGAGTTTGTCTGTTGAGACAAACAC 752
QY 817 TGTGCTTTGCAAAACCAATACATTATATCACTTACAGTTCAGAACTACTGAATTC 876
Db 753 TGTGCTTTTCTTATCACTATCAGCTTTCATGACAAAGCCAAAGAGATGCTGACCGTC 812
QY 877 AAGTGCCTCGTGCAGAGAGCTGTGTGATGCTATCAAGTGCAGAGAAAATCATG 936
Db 813 AAATGCCCCAGCTGGCAGAGAAAAGTCAATGATGCAACAGGCTGCAGACACAGTATTA 872
QY 937 AATATGATGAGAAATTAAGACCCAGGCTTACCCCGTGTGGAATCTCTCAGGCT 996
Db 873 TCCATGATTTGAGAGGTCTGCGGACTTCA-----ATGTCAGTCAATACCAAGTCT 920
QY 997 TCACCCATGATGAGAGAGCAATGTGTTAGAAAAGATTACAGACACCTTTCTAAATGC 1056
Db 921 TCACCTAATTTGGAAGCAGT-----GACAGACCAATTCGGT 959
QY 1057 TCACCAAGATGCCCCCGCTCTTCAAGCAGAGCATATACAGTCCCTTGATGATATG 1116
Db 960 TCATATTTTCAACCGCAGCCCACTTAAGCCCAACGAGCCCACTGCGCAGCATG 1019
QY 1117 TTTAATTAACCCAGCCAGGCTGCCCCGAATTCACAAAGGTAAATTAATTCACAGGTACT 1176
Db 1020 TTCTCCCGAAGAGCTCCCAAAGCCCACTCATCAGAGCAATTCAGATCAGACAGT 1079
QY 1177 TCCGAAGATCCAGTTTACAGCGATCAATTCGTTGCAACGGGACTGAACATGATGAAC 1236
Db 1080 CTAGACGAAACGGCTGTCTGCTCTAGTGTCTTAGCGGCAATGACACGGCGGAAA 1139
QY 1237 AAGCAGAAAGTGAAGCCATCTTCCCGCACTGCGGGGCTCCAAAGACCTTACTCAGC 1296
Db 1140 AAGACCAAGGTGCAACTATTTTCCCAACAGCAGGGAATTAAGAAACGCTGCTGAGC 1199
QY 1297 TTTGCAAGGAGATGCTCATCGCTCATATCCGAGAGAAAGATGGCTGCTTAT 1356
Db 1200 TTTGAGAGATGAGACATCATTTTGTCTTATCCAGAGAGAGCGGAGCGATGCTGTAC 1259
QY 1357 GGAGAACACGACGCTTCAGAGCGGAGGTTGTTCCGTCGTGTA 1403
Db 1260 GGAGAACTTGACATACCGGACAAACGGGATGTTTCCGTTCTTTA 1306

Search completed: March 20, 2006, 16:31:42
Job time : 10294 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:44:26 ; Search time 2596 Seconds
(without alignments)
1882.610 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096
1 ctccctcgtcctcgaagaa.....aaaaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 8023312 seqs, 1165852854 residues

Total number of hits satisfying chosen parameters: 16046624

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq1:*
7: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq1:*
8: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq1:*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2:*
10: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2:*
11: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3:*
12: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq4:*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	357.4	17.1	516	US-11-021-492-430	Sequence 430, App
2	266.6	12.7	2078	US-11-128-061-1100	Sequence 1100, App
3	266.6	12.7	2078	US-11-128-049-1100	Sequence 1100, App
4	209.6	10.0	303	US-11-128-061-2130	Sequence 2130, App
5	209.6	10.0	303	US-11-128-061-5772	Sequence 5772, App
6	209.6	10.0	303	US-11-128-049-2130	Sequence 2130, App
7	209.6	10.0	303	US-11-128-049-5772	Sequence 5772, App
8	147.2	7.0	640	US-09-925-065A-730687	Sequence 730687, App
9	81.4	3.9	1395	US-10-955-054A-111	Sequence 111, App
10	79.4	3.8	1400	US-11-128-061-4742	Sequence 4742, App
11	79.4	3.8	1400	US-11-128-049-4742	Sequence 4742, App
12	79.4	3.8	2036	US-10-996-217A-8	Sequence 8, App1
13	78.8	3.8	1400	US-11-136-527-7203	Sequence 7203, App
14	78.8	3.8	1967	US-11-136-527-3107	Sequence 3107, App
15	77.8	3.7	2120	US-10-689-742-163	Sequence 163, App
16	77.8	3.7	932	US-11-031-206-65	Sequence 65, App1
17	77.4	3.7	1133	US-10-663-794-1	Sequence 1, App1
18	76	3.6	1400	US-11-136-527-6433	Sequence 6433, App
19	76	3.6	3801	US-11-136-527-2237	Sequence 2237, App
20	75.8	3.6	2255	US-11-096-568A-2260	Sequence 2260, App

21	75.6	3.6	2797	US-11-120-308-133	Sequence 133, App
22	75.6	3.6	4330	US-11-091-883-182	Sequence 182, App
23	75.4	3.6	1456	US-11-096-568A-12004	Sequence 12004, App
24	75.4	3.6	2091	US-10-276-233A-19	Sequence 19, App1
25	75	3.6	1273	US-11-096-568A-12247	Sequence 12247, App
26	75	3.6	4339	US-10-909-125-801	Sequence 801, App
27	74.8	3.6	2162	US-11-091-883-330	Sequence 330, App
28	74.6	3.6	600	US-11-123-896-256	Sequence 256, App
29	74.6	3.6	755	US-10-973-115B-153	Sequence 153, App
30	74.6	3.6	755	US-10-131-826A-153	Sequence 153, App
31	74.6	3.6	3082	US-11-096-568A-2443	Sequence 2443, App
32	74.4	3.5	600	US-11-136-527-7965	Sequence 7965, App
33	74.4	3.5	625	US-11-096-568A-2599	Sequence 2599, App
34	74.4	3.5	804	US-11-091-883-265	Sequence 265, App
35	74.4	3.5	2183	US-11-000-668-485	Sequence 485, App
36	74.4	3.5	2924	US-11-136-527-3869	Sequence 3869, App
37	74.4	3.5	3501	US-10-973-115B-37	Sequence 37, App1
38	74.4	3.5	3501	US-10-131-826A-37	Sequence 37, App1
39	74	3.5	850	US-11-096-568A-3385	Sequence 3385, App
40	74	3.5	1358	US-11-096-568A-2642	Sequence 2642, App
41	74	3.5	2537	US-11-102-978-8	Sequence 8, App1
42	73.8	3.5	799	US-11-195-459-3	Sequence 3, App1
43	73.8	3.5	807	US-11-096-568A-706	Sequence 706, App
44	73.8	3.5	1660	US-11-096-568A-2748	Sequence 2748, App
45	73.8	3.5	2476	US-10-973-115B-489	Sequence 489, App

ALIGNMENTS

RESULT 1
US-11-021-492-430
; Sequence 430, Application US/11021492.
; Publication No. US20060031947A1
; GENERAL INFORMATION:
; APPLICANT: Abidin, Alejandro
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sande, Arthur T.
; TITLE OF INVENTION: Novel Mutated Mammalian Cells and
; TITLE OF INVENTION: Animals
; FILE REFERENCE: LEX-0368-USA
; CURRENT APPLICATION NUMBER: US/11/021,492
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: US 60/307,670
; PRIOR FILING DATE: 2001-07-25
; NUMBER OF SEQ ID NOS: 698
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 430
; LENGTH: 516
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 40, 156, 175, 190, 216, 291, 344, 370, 431
; OTHER INFORMATION: n = A,T,C or G
US-11-021-492-430

Query Match
Best Local Similarity 83.9%; Pred. No. 7.2e-35;
Matches 433; Conservative 0; Mismatches 80; Indels 3; Gaps 3;

429 GGCAGATGCTCATAGAGATTTCAGAGTCCACAGAACTCAACGAGTCTTGATGA 488
1 GAGGCTGCTCCATAGAGATTTCAGAGTCCACAGAACTCAACGAGTCTTGATGA 60
489 AATTTTAAAAATTCACAAAGATTTCATAGCTGGAGAAAGATGAATTGA 548
61 AATTTTAAAAATTCACAAAGATTTCATAGCTGGAGAAAGATGAATTGA 120
549 CGTGAATATATGAA-CGCAACTTAAAGATACAAACAGAACAGAAATTAAT-A 606
121 TTTAAAGTATGAAACCGTACTCTTTAAAGATATTAAGACAGACAGAAATTAAT 180

Oy	607	GAGCTTTGGAGAAATCCCAAGC-TGAGTTGAAGAAATCAGAGGAAAAAGCAAG	665
Db	181	CATTCTTTGMAAAATCTTCAGGACAGAGCTGAAGANGATCAGAGAAAGTCAAGTGG	240
Oy	666	CGAAGACGACTCAAAATATGAACACAAAGAAATTGAGTATGTGGAGACCGTTACTCTG	725
Db	241	ACGAAACCCACTCAAAATACGAGACAAAGAAATTTGATGTGTGGAAACGAGACGCTCTG	300
Oy	726	TCAGAGTAAATCCAGAAATTCATTGACATGATGTTCAAGAGGCTCTGCTTAAAGAA	785
Db	301	CCAGGTGAGATCCAGAAATTCATTGCCATGGCTGCAAGAAAGAACCTCTGTAAGAAAA	360
Oy	786	GAGCGGCTTTCTGCTTTCTGCTTGTATPAGACTGTGCTTTGCAAAACCACTACTATT	845
Db	361	AAGGGCTTTTGTCTTTCTGTGTGACAAAGCACTGCAAGCTTTGCCAGTCACTACTACTA	420
Oy	846	TCACTTACAGTCTGCAGAACTACTGAATTCGAAGCTGCTCGGTGGACGAGACCTGTG	905
Db	421	TCACATGACAGNCTGCAGAGTTACTTATTTCCAAAGCTGCCCGGTGGACGAAACCTGTTG	480
Oy	906	TGATGCCATCAAAAGTGCAGAGAAATCTGAATAT	941
Db	481	TGATGCCCAAAAGTCCAGAGAAATCTGAACAT	516

```

RESULT 2
US-11-128-061-1100
; Sequence 1100, Application US/11128061
; Publication No. US20060003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128, 061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1100
; LENGTH: 2078
; TYPE: DNA
; ORGANISM: Cricetinae
US-11-128-061-1100

```

	Query Match	Similarity	12.7%	Score	266.6	DB	12	Length	2078	
	Best Local	Similarity	59.2%	Pred.	No.5.3e-24					
	Matches	Conservative	455	0	Mismatches	314	Indels	0	Gaps	0
QY	230	CCGAGAGAGTGAACCGGCTCACGGAGAGCAGCTACCGAATGTATAGAACAGTTCAATC	289							
Db	77	CGAGAGATGACCGGCTCACGGAAATGTCTATTAAGACCATCATGGAGCAATTCACAC	136							
QY	290	CTGGGCTCGGAATTTAATAAACCCTGGGAAAAAATTATAGAAAGCTGTAAACGCTATGA	349							
Db	137	CGAGCTTCGCACTTCATCGCCATGGGGAGAAATCAAGAAAGCCCTGGCAGGCTCA	196							
QY	350	TCTGGCAGAAAAGCTACTACATGATGAGTGGCCAAAGTCGGTGAATTCACATCGGT	409							
Db	197	CCTTCGCTGCCAAAGGCTATTTGCATGCTCTGTAAAGATGGGGAGCTGGCCAGGAGA	256							
QY	410	CCCCGTGCAACTGAATCTGGGACATGTCCTCTATAGATTTTCAAGTACCCACAAGAAC	469							
Db	257	GCCAGGGCTCTAAGAAACTTGGGAGAGTCTCTTCCAGATGGCCGAAGTCCACCGGCAGA	316							

QY	470	CCAACGAGGCTTGATGTAATAATTTTAAATAATTCACACAAAGATTATCCATGACCTGG	529
Db	317	TCGGAACCAACTGAGAGAGATGCTAAAGTCTTTTCACATAGCTGCTCACACAGCTGG	376
QY	530	AGAAAGAAATGAACTTGACGTGAAATATATGAAAGCACTTAAATAAGATACCAACAG	589
Db	377	AACAGAGGTAGAGCTGGACTCCAGAGTATCTGAGTGTGCACTGAAAGAAATACAGGCGAG	436
QY	590	AACACAGAAATTAATTTAGTCTTTGGAGAAATCCCAAGCTGAGTTGAAAGAAATGACGAA	649
Db	437	AGCAGAGAGCAAGAGATGCTCTGGAACAAAGTGTGAGCTGAGTGAAGAAAGCTTCGTA	496
QY	650	GGAAGAAGCCAAAGAGCCGAAACGCACATCAATATAGAACACAAAGAAATTGATATGTGG	709
Db	497	AGAAAGCCAAAGGAGCAAGAAACCTCAGAAAGTATCGGACAAAGAGCTGCAGTACATTG	556
QY	710	AGACCGTTACTTCTCTGTCAGAGTGAATTCAGAAATTCATTCGACATGTTTGGCAAGAG	769
Db	557	ATGCGCATCAGCAACMAGCAGGGGTGAGCTGGAAACCTAGCTATCTATGTGCTACMAGACAG	616
QY	770	CTGTGCTTGAAGAGAAGAGCGCTTCTGCTTCTGTTGATTAAGCACTTGCGCTTTGCAA	829
Db	617	CACATCACCGAAGAGCGAGAGAGTTCTGCTTCTCTGTGGAAGAAAGCAGTGTGCTGGCCA	676
QY	830	ACCACATACATTATTTATCTTACAGTCTCGAAGACTGAAATTCAAAGCTGCTGCTCGGT	889
Db	677	AGAACTCTGCTGCTTACCACTCCAAAGGCGCAAGAGACCTGTAGCCCAAGAGCTGCCGTGT	736
QY	890	GGCAGAGAACCTGTGTTGATGCGATCACAAGTGCACAGAGAAATCAATGATATGATCGAAG	949
Db	737	GGCAGCAAGCTGTGTCTGTAACCCCAACMAGATTCACAGACCGGCTGTCCAGCTGATGACAG	796
QY	950	AAATTAAGACCCCAAGCTCTTACCCCGTGTCTGAAATCTTCAAGCTTC	998
Db	797	AGATATGCGCAGACGAAACGCTCTCAATCTTCTCTAGTAAACCTGTACAGCTTC	845

```

RESULT 3
US-11-128-049-1100
/ Sequence 1100, Application US/11128049
/ Publication No. US20060010513a1
/ GENERAL INFORMATION:
/ APPLICANT: Melville, Mark W.
/ APPLICANT: Charlebois, Timothy S.
/ APPLICANT: Mounts, William M.
/ APPLICANT: Hann, Louane E.
/ APPLICANT: Sinacore, Martin S.
/ APPLICANT: Leonard, Mark W.
/ APPLICANT: Brown, Eugene L.
/ APPLICANT: Miller, Christopher P.
/ TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR
/ TITLE OF INVENTION: MAKING AND USING SAME
/ FILE REFERENCE: 01997.027700
/ CURRENT APPLICATION NUMBER: US/11/128,049
/ CURRENT FILING DATE: 2005-05-11
/ PRIOR APPLICATION NUMBER: US 60/570,425
/ PRIOR FILING DATE: 2004-05-11
/ NUMBER OF SEQ ID NOS: 7285
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 1100
/ LENGTH: 2078
/ TYPE: DNA
/ ORGANISM: Cricetinae
US-11-128-049-1100

```

	Query Match	Similarity	Score	DB	Length
Best local	59.2%	Pred. No. 5.3e-24			
Matches	455	Conservative	0	Mismatches	314
				Indels	0
				Gaps	0

	230	CGAGAGAGTGAACCGGCTCACGAGAGACCTACCGGAAATGTATGCAACGTTCAAT	289
DB	77	CGAGAGAGTGAACCGGCTCACGAGAAATGTTATTAAGACATCATGAGAGGTTCAAC	136

```

QY 290 CTGGGCTGCGAAATTTATTAACCTGGGAAAAATTTATGAGAAAGCTGTAAAGCTTTGA 349
DB 137 CAGGCTCCGCACTTATCGCCATGGGGAAGAACTACGAAAGAGCCCTGGCAGGTTC 136
QY 350 TCCGTGCGAAGAAAGCTTACTAGATGAGTGGCGAAAGATCGGTAGATTGCCATGGGT 409
DB 197 CTTGCTGCGCAAGGCTATTGATGCTCTGTGAAGATGGGGAGCTGGCCAGCGAGA 256
QY 410 CCCCCGTGCACTGAAGCTGGGACATGCTCTCATAGAGATTTCAAGTACCCACAAGAAC 469
DB 257 GCCAGGCTTTAAGAACTTGGGAGCGTCTCTTCCAGATGGCGAAAGTCCACCGGAGA 316
QY 470 TCACGAGAGCTTTGATGAAAAATTTTAAAAATTCACAAGAGATTATCATGAGCTTG 529
DB 317 TCCAGAACCAACTGGAAGAGATGTAAAGCTTTTCAATGAGCTGCTACACAGCTGG 376
QY 530 AGAAGAAATAGAACTTGACGTGAATATATGAAAGCACTGTAAGAAAGATACCAACAG 589
DB 377 AACAGAAAGTAGAGCTGAGCTGCAAGTATCTGAGTGTGCACTGAAGAAATACAGGAG 436
QY 590 AACACAGAAATTAATTAGAGCTTTTGGGAAATCCCAAGCTGAGTGAAGAAAGATAGAA 649
DB 437 AGCAGAGAGCAAGAGAGATGCTTGACAAAGTGTGAGCTGAGCTGAAGAAAGCTCCGA 496
QY 650 GGAAGAGCCAGAGAGAGCCGAAAGCACTCAAAATATGAAACAAGAAATAGATATGTG 709
DB 497 AGAAGAGCCAGAGAGAGCAAGAACCTCAGAAAGTACTCGCAAGAGAGCTGACATGCTG 556
QY 710 AGACCTTATCTTCTGTCAGAGTGAAATCCAGAAATTCATGAGATGTTGCAAGAG 769
DB 557 ATGCCATCAGCAACAAGAGAGGTGAGCTGAGAACTGATCTGATGAGCTACAAAGAG 616
QY 770 CTCGCTTGAAGAGAGAGGAGGAGCTGCTGCTTCTGCTGTAAGCACTGAGCTTTGCA 829
DB 617 CACTCACCGAGGAGGAGAGGAGTTCCTTCTGAGGAAAGAGAGTGTGCTGGCCA 676
QY 830 ACCACATACATTTATTCATCTTACAGTCTGACAGAACTACTGAATTCAGAGCTCTGCT 889
DB 677 AGAAGCTGCTGCTTACCACTCAAGGAGCAAGAGAGCTGAGCCAGAGAGCTCCGCTG 736
QY 890 GCGAGAGAGCTTGTGTTGATGCAATCAAGTCCAGAGAAATCATGATATGATGAG 949
DB 737 GCGAGAGAGCTGCTGTGATCCCAAGAAATTCAGAGCGGCTGTGCAAGCTGATCAGC 796
QY 950 AATTAAGAGCCAGAGCTTACCCGCTGCTGAGAACTGCTCAGGCTTC 998
DB 797 AGATACCCAGAGCAAGAGGCTCATCTTCTAGTACCTGTCAGCTC 845

```

RESULT 4
US-11-128-061-2130
Sequence 2130, Application US/11128061
Publication No. US20060003958A1

GENERAL INFORMATION:
APPLICANT: Melville, Mark W.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Mounts, William M.
APPLICANT: Ham, Louane E.
APPLICANT: Sinacore, Martin S.
APPLICANT: Leonard, Mark W.
APPLICANT: Brown, Eugene L.
APPLICANT: Miller, Christopher P.
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
FILE REFERENCE: 01997.027701
CURRENT APPLICATION NUMBER: US/11/128,061
CURRENT FILING DATE: 2005-05-11
PRIOR APPLICATION NUMBER: US 60/570,425
NUMBER OF SEQ ID NOS: 7285
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2130
LENGTH: 303

TYPE: DNA
ORGANISM: Cricetus griseus
FEATURE:
NAME/KEY: misc feature
LOCATION: (187)..
OTHER INFORMATION: n is a, c, g, or t
US-11-128-061-2130

Query Match 10.0%; Score 209.6; DB 12; Length 303;
Best Local Similarity 83.1%; Pred. No. 4.3e-17;
Matches 250; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

```

QY 674 CACTCAATATGAAACAAGAAATGAGATGAGAGACCGTTACTTCTGTCAGAGT 723
DB 1 CACTGAAATATGAGCAACAAGAAATGAGATGAGAGCTGTTACTTCTGTCAGAGT 60
QY 734 AATTCAGAAATTCATGAGATGTTGCAAGAGGCTGCTTGAAGAGAGGCGCT 793
DB 61 AATTCATTAAGTTCATGAGATGCTGCAAGAGAGGCTGCTTGAAGAGGCGCT 119
QY 794 TCTGCTTCTGTTGATGAGCACTGAGCTTTGCAACATACATATATATCACTTAC 853
DB 120 TCTGCTTCTGTTGAGCAAGCACTGAGCTTTGCAACATACATACATACATACCTTC 179
QY 854 AGTCTGCAAGAACTAGAAATTCAGAGCTGCTGAGAGAGAGAGAGAGAGAGAGAG 913
DB 180 AGTCTGCAAGAAATTCATTAATTCAGAGCTGCTGAGAGAGAGAGAGAGAGAGAG 239
QY 914 TCAAGTGCAGAGAAATCATGAAATGATGAGAGAAATTAAGAGAGAGAGAGAG 973
DB 240 CATTAAGCAAGAGAAATCATGAAATGATGAGAGAGAGAGAGAGAGAGAGAGAG 259
QY 974 C 974
DB 300 C 300

```

RESULT 5
US-11-128-061-5772

Sequence 5772, Application US/11128061
Publication No. US20060003958A1

GENERAL INFORMATION:
APPLICANT: Melville, Mark W.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Mounts, William M.
APPLICANT: Ham, Louane E.
APPLICANT: Sinacore, Martin S.
APPLICANT: Leonard, Mark W.
APPLICANT: Brown, Eugene L.
APPLICANT: Miller, Christopher P.
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
FILE REFERENCE: 01997.027701
CURRENT APPLICATION NUMBER: US/11/128,061
CURRENT FILING DATE: 2005-05-11
PRIOR APPLICATION NUMBER: US 60/570,425
NUMBER OF SEQ ID NOS: 7285
SOFTWARE: PatentIn version 3.3
SEQ ID NO 5772
LENGTH: 303

TYPE: DNA
ORGANISM: Cricetus griseus
FEATURE:
NAME/KEY: misc feature
LOCATION: (187)..
OTHER INFORMATION: n is a, c, g, or t
US-11-128-061-5772

Query Match 10.0%; Score 209.6; DB 12; Length 303;
Best Local Similarity 83.1%; Pred. No. 4.3e-17;
Matches 250; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

Oy	674	CACCTAAATATGAAACCAAAAGAAATGAGATGTGGAGACCGTTACTCTTCGTCAGAGTG	733
Db	1	CACGTAAATATGAGCAAAAGAAATGTGATGTGGAGACTGTACTCTTCGCAAGTG	60
Oy	734	AAATCCAGAAATTCATTGGCAGATGGTTGCCAAAAGCGCTCTGCTTTGAAGAAAGCGCT	793
Db	61	AAATCCATTAAGTTCAATTGAGATGGCTGGCAAAAGACCCCTGCTTGGAGA-AAAAAGGCT	119
Oy	794	TCTGCTTCTGGTGTGTAAGCACTGTGGCTTGGCAAAACCATATACATTATTCACCTTAC	853
Db	120	TCTGCTTCTGGTGTGCAAGCACTGTAGCTTTGGCAATCATATACACTACTATCACCTTC	179
Oy	854	AGTCTGCAGAACTACTCGAATTTCCAACTGCTCTGGTGGCAGAGACTGTGTGATGCCA	913
Db	180	AGTCTGCAGAAATTACTTAATTCCACTGTCCCGGAGGCAGGAACTGTGTGAGATGCCA	239
Oy	914	TCAAAGTGCAGAGAAATCATGATATATGATCGAAGAAATTAAGAGCCCGCAGCTTACCC	973
Db	240	CATAGCAGCACCAGAGAAATCATGAAATCATGATAGAAAGCATTAATAAGCCCATCTTCACAC	289
Oy	974	C 974	
Db	300	C 300	

RESULT 6
 US-11-128-049-2130
 ; APPLICANT: Miller, Christopher P.
 ; TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR
 ; TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR

```

Oy      854 AGCTGCAGAACTACTGTAATTCGAAGCTGCCCTCGGTGGCAGAGACTCTGTGATGCCA 913
Db      180 AGCTGCAGAAATTAATTCTTAATTCGAACTCTGCCGGAGGAGGAAACTCTGTCCAGATGCCA 239
Oy      914 TCAAAAGTCCCGAGAGAAATTCATGATATGATGTAAGAAATTAAGACCCCAAGCTCTAACCC 973
Db      240 CATTAAGCACACAGAGAAATTCATGAACATGATGAAGCGCATTAAGACCCCATTTGCAC 299
Oy      974 C 974
Db      300 C 300

RESULT 7
US-11-128-049-5772
; Sequence 5772, Application US/11128049
; Publication No. US20060010513A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND M
; TITLE OF INVENTION: MAKING AND USING SAME
; FILE REFERENCE: 01997.027700
; CURRENT APPLICATION NUMBER: US/11/128,049
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5772
; LENGTH: 303
; TYPE: DNA
; ORGANISM: Cricetus griseus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (187)..(187)
; OTHER INFORMATION: n is a, c, g, or t
US-11-128-049-5772

```

Query Match 250; Conservative	Score 209.6; DB 12; Pred. No. 4.3e-17; Indels 0; Mismatches 50;	Length 303; Gaps 1;
Best Local Similarity	83.1%;	


```
Publication No. US20060010513A1
GENERAL INFORMATION:
APPLICANT: Melville, Mark W.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Mounts, William M.
APPLICANT: Hann, Louane E.
APPLICANT: Sinacore, Martin S.
APPLICANT: Leonard, Mark W.
APPLICANT: Brown, Eugene L.
APPLICANT: Miller, Christopher P.
TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR
FILE REFERENCE: 01997.027700
CURRENT APPLICATION NUMBER: US/11/128,049
PRIOR FILING DATE: 2005-05-11
PRIOR APPLICATION NUMBER: US 60/570,425
NUMBER OF SEQ ID NOS: 7285
SOFTWARE: PatentIn version 3.3
SEQ ID NO 4742
LENGTH: 1400
TYPE: DNA
ORGANISM: Cricetinae
US-11-128-049-4742

Query Match      3.8%  Score 79.4; DB 12; Length 1400;
Best Local Similarity 54.5%; Pred. No. 0.17;
Matches 186; Conservative 0; Mismatches 146; Indels 9; Gaps 1;

QY 1193 TACAGGATGATGTTGCTGTTGCAACGGAAGTGAATGTAAGAAAGCAAGAAAGTGAAGA 1252
DB 467 TGCACGTTCAAGCTCATGAGGAGCTGGCTGAAAGTAAAGCCGCGGTCAAG 526

QY 1253 CCATCTTCCGCACTGCGGGCTCCAAAGACCTTACTGACCTTGGACAGGGAGATG 1312
DB 527 CCATTTCTCCACGCGGCTGTGACAAAGCACTGTGCTGACCTTCAAGAGAGGAGACC 586

QY 1313 TCATCAGCTGCTCATCCCGAGAGAGAGATGCTGCTCTATGAGAAACACAGCTGT 1372
DB 587 TCATCACCCTGCTGATGCTGAGCCCGCTGACGCTGAGCACTATGCGAGAGTGAAGAAA 646

QY 1373 CCAAGGCGAGGGTGTGCTCCGCTGCTGTAACGAAAGTTGCTGGAAGAAAGTGAACAG 1432
DB 647 CCAAAATGCGGGGCTGTCTTCTCTCACTGCGGGTCTGAGCAAGTGAAGAGTGT 706

QY 1433 AAGCATGACCGTGGCCAGCCAGCCACACACAGTGAAGACATGACGACCGTGAAT 1492
DB 707 ACAGTTGACATG-----AGCCTGACAGAGGCAAGACAGACGACGACGCGCAAC 757

QY 1493 TGTCTGAAATAGCAGTGTGTCATCCCGCCACCCGACTAC 1533
DB 758 TTCTGACACAGACGACGCTGCGCTCCCTCTCTACTAC 798

RESULT 12
US-10-996-217A-8/C
Sequence 8, Application US/10996217A
Publication No. US20050286561A1
GENERAL INFORMATION:
APPLICANT: Revivacor, Inc.
APPLICANT: Wells, Kevin
TITLE OF INVENTION: Use of Interfering RNA in the Production of Transgenic Animals
FILE REFERENCE: 10785.105070 REV 1015 US
CURRENT APPLICATION NUMBER: US/10/996,217A
PRIOR FILING DATE: 2004-11-22
PRIOR APPLICATION NUMBER: 60/523,938
NUMBER OF SEQ ID NOS: 272
SOFTWARE: PatentIn version 3.2
SEQ ID NO 8
LENGTH: 2036
TYPE: DNA
ORGANISM: Artificial Sequence
```

```
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-996-217A-8

Query Match      3.8%  Score 79.4; DB 8; Length 2036;
Best Local Similarity 73.7%; Pred. No. 0.16;
Matches 101; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

QY 1960 ACCAGCTGACCATTTAAATATTTCTCTATCTGTTCAAGAAACAGTAACTGTGT 2019
DB 668 ACCATTACCATTTAGATATTTCTTGTTCCCTTCAGTGAACCTATATTTTAG 609

QY 2020 TTCAATCTTTAAATATTTCTCTATCTGTTCAAGAAACAGTAACTGTGT 2079
DB 608 GTATCTTTAAATATTTCTCTATCTGTTCAAGAAACAGTAACTGTGT 549

QY 2080 AAAAAAAAAAAAAAAAAA 2096
DB 548 AAAAAAAAAAAAAAAAAA 532

RESULT 13
US-11-136-527-7203
Sequence 7203, Application US/11136527
Publication No. US20050287570A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William M
TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
FILE REFERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
PRIOR FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
NUMBER OF SEQ ID NOS: 362830
SOFTWARE: PatentIn version 3.2
SEQ ID NO 7203
LENGTH: 1400
TYPE: DNA
ORGANISM: Rattus norvegicus
US-11-136-527-7203

Query Match      3.8%  Score 78.8; DB 12; Length 1400;
Best Local Similarity 65.1%; Pred. No. 0.2;
Matches 82; Conservative 20; Mismatches 24; Indels 0; Gaps 0;

QY 1971 CATTAAATATTTCTCTATCTGTTCAAGAAACAGTAACTGTGTTCAATCTTTA 2030
DB 1254 CTTTGAATCATGKACTTTCTGTTTWTCAARTAAAGTGAACCTAATVWRMHWMMW 1313

QY 2031 AAAAAAAAAAAAAAAAAA 2090
DB 1314 MWMWMAAATAAAAAAAAAAAAAAAAAA 1373

QY 2091 AAAAAA 2096
DB 1374 AAAAAA 1379

RESULT 14
US-11-136-527-3107
Sequence 3107, Application US/11136527
Publication No. US20050287570A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William M
TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
FILE REFERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
PRIOR FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
NUMBER OF SEQ ID NOS: 362830
```

Job time : 2598 secs

```
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 3107
; LENGTH: 1967
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3107
```

```
Query Match
Best Local Similarity 65.1%; Score 78.8; DB 12; Length 1967;
Matches 82; Conservative 20; Mismatches 24; Indels 0; Gaps 0;
```

```
QY 1971 CATTAAATATTTCTTCCTTCAATGTTCAAGAAAGTTGTTCAATCTTA 2030
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1821 CTTTGAAACATGACTTCTGTTTTCATTAAGTTGAACTAYMRMHVMMNM 1880
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 2031 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2090
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1881 MAMMMARARARARARARARARARARARARARARARARARARARARAR 1940
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 2091 AAAAAA 2096
    |||||
Db 1941 AAAAAA 1946
```

RESULT 15

```
US-10-689-742-163
; Sequence 163, Application US/10689742
; Publication No. US20050250180A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M
; APPLICANT: Lavallee, Edward R
; APPLICANT: Racie, Lisa A
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Spaulding, Vikki
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000091.10
; CURRENT APPLICATION NUMBER: US/10/689,742
; PRIOR FILING DATE: 2003-10-22
; PRIOR APPLICATION NUMBER: 09/746,783
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 163
; LENGTH: 2120
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-689-742-163
```

```
Query Match
Best Local Similarity 59.5%; Score 78; DB 8; Length 2120;
Matches 132; Conservative 0; Mismatches 90; Indels 0; Gaps 0;
```

```
QY 1875 CTGCTTAAGCAATCATGCTTCTCTGTTTCAAGTAGTTGGTTGACAAGTTTCTGCTTT 1934
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1887 CTATGTAATATATTAAGTACTGCTTGTGAGGAATGTTGTGCAAAATTTTCTCTCT 1946
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 1935 AAGATTAATGAGTAATAGTCTAATGACCAAGCTCAGCCATTAAATATTTCTTCTAAT 1994
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1947 AATGATATATATGTTAATGATTAATAAATCTTCAGAAATTAATATTCCTTTGTGAC 2006
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 1995 CTGTTCAAGAAACAGTAACCTGTTTCATCTTTAAAAA 2054
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 2007 TTTTGAACACATATATATCTTTGTATCTGTGCTTA 2066
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 2055 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2096
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 2067 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2108
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
```

Search completed: March 20, 2006, 14:27:56

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:39:55 ; Search time 381 Seconds

(without alignments)
9778.922 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096
Sequence: 1 cctccctgcctccgaagaa.....aaaaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: Issued Patents NA: *
2: /cgn2_6/ptodata/1/ina/1 COMB.seg: *
3: /cgn2_6/ptodata/1/ina/5 COMB.seg: *
4: /cgn2_6/ptodata/1/ina/6A COMB.seg: *
5: /cgn2_6/ptodata/1/ina/6B COMB.seg: *
6: /cgn2_6/ptodata/1/ina/H COMB.seg: *
7: /cgn2_6/ptodata/1/ina/PP COMB.seg: *
8: /cgn2_6/ptodata/1/ina/RE COMB.seg: *
9: /cgn2_6/ptodata/1/ina/backfill1.seg: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	259.6	12.4	2080	2 US-08-878-563A-2	Sequence 2, Appl
2	259.6	12.4	2080	3 US-09-270-117-2	Sequence 2, Appl
3	259.6	12.4	2080	3 US-09-046-572-2	Sequence 2, Appl
4	241.6	11.5	2328	3 US-09-046-572-4	Sequence 4, Appl
5	82.8	4.0	997	3 US-09-907-794A-376	Sequence 376, App
6	82.8	4.0	997	3 US-09-905-125A-376	Sequence 376, App
7	82.8	4.0	997	3 US-09-902-775A-376	Sequence 376, App
8	82.8	4.0	997	3 US-09-906-700-376	Sequence 376, App
9	82.8	4.0	997	3 US-09-903-603A-376	Sequence 376, App
10	82.8	4.0	997	3 US-09-904-920A-376	Sequence 376, App
11	82.8	4.0	997	3 US-09-909-064-376	Sequence 376, App
12	82.8	4.0	997	3 US-09-905-381A-376	Sequence 376, App
13	82.8	4.0	997	3 US-09-906-618-376	Sequence 376, App
14	82.8	4.0	997	3 US-09-906-646-376	Sequence 376, App
15	82.8	4.0	997	3 US-09-904-462-376	Sequence 376, App
16	82.8	4.0	997	3 US-09-902-736A-376	Sequence 376, App
17	82.8	4.0	997	3 US-09-906-722A-376	Sequence 376, App
18	81.2	3.9	1570	3 US-10-012-231A-291	Sequence 291, App
19	81.2	3.9	1570	3 US-10-015-389A-291	Sequence 291, App
20	81.2	3.9	1570	3 US-10-006-768A-291	Sequence 291, App
21	81.2	3.9	1570	3 US-10-015-671A-291	Sequence 291, App
22	81.2	3.9	1570	3 US-10-015-393A-291	Sequence 291, App
23	81.2	3.9	1570	3 US-10-011-833A-291	Sequence 291, App
24	81.2	3.9	1570	3 US-10-006-041A-291	Sequence 291, App

25	81.2	3.9	1570	3 US-10-012-064A-291	Sequence 291, App
26	80.8	3.9	1687	3 US-09-907-907A-38	Sequence 38, Appl
27	80.2	3.8	1474	3 US-08-821-994-64	Sequence 64, Appl
28	79	3.8	2550	9 5258287-23	Patent No. 5258287
29	78.8	3.8	1172	2 US-07-945-288-9	Sequence 9, Appl
30	78.8	3.8	1172	2 US-08-462-831-9	Sequence 9, Appl
31	78.8	3.8	1172	2 US-08-461-809-9	Sequence 9, Appl
32	78.8	3.8	1172	2 US-08-461-441-9	Sequence 9, Appl
33	78.8	3.8	1172	6 PCT-US93-08518-9	Sequence 9, Appl
34	78.6	3.8	396	3 US-09-640-173-10	Sequence 10, Appl
35	78.6	3.8	396	3 US-09-640-173-53	Sequence 53, Appl
36	78.6	3.8	396	3 US-09-713-550-10	Sequence 10, Appl
37	78.6	3.8	396	3 US-09-713-550-53	Sequence 53, Appl
38	78.6	3.8	396	3 US-09-825-294-10	Sequence 10, Appl
39	78.6	3.8	396	3 US-09-825-294-53	Sequence 53, Appl
40	78.6	3.8	396	3 US-09-970-966-53	Sequence 53, Appl
41	78.6	3.8	396	3 US-09-970-966-10	Sequence 10, Appl
42	78.6	3.8	708	3 US-09-270-167-13081	Sequence 13081, A
43	78.2	3.7	985	3 US-09-832-129-19	Sequence 19, Appl
44	78.2	3.7	985	3 US-09-832-129-32	Sequence 32, Appl
45	78	3.7	2276	3 US-09-205-258-183	Sequence 183, App

ALIGNMENTS

RESULT 1
US-08-878-563A-2
Sequence 2, Application US/08878563A
Patent No. 5891674
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Shah, Purvi
TITLE OF INVENTION: INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/878,563A
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2080 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: BRSTNOT04
CLONE: 918158
US-08-878-563A-2
Query Match 12.4%; Score 259.6; DB 2; Length 2080;

Best Local Similarity 59.2%; Pred. No. 1.6e-48;
Matches 442; Conservative 0; Mismatches 304; Indels 0; Gaps 0;

```

OY 230 CCGAGAGAGTGAACCGGCTACGAGACACCTACCGGAATGTTATGGAACAGTTCAATC 289
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 112 CAGAGAGAGTGAACCGGCTACGAGACACCTACCGGAATGTTATGGAACAGTTCAATC 171
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 290 CTGGGCTGCGAAATTTAATAACCTTGAGGAAAAATTTAGAAAGCTGTAAGCTATGA 349
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 172 CTAGCTCCGGAATCTTATGCGCATGAGGAAAGATTCAGAAAGGCACTGGCAGGTGTA 231
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 350 TCCTGCGAGAGAAAGCTTACTACATGAGTGGCCAAAGATCGGTAGATTGCCACTGGT 409
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 232 CGTATGAGCCAAAGGCTTACTTTGACGCCCTGGTGAAGATGGGGAGCTGGCCAGCAGA 291
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 410 CCCCCGTGTCACTGAACCTGGGACATCTCTCATAGATTTCAAGTACCAGAAAC 469
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 292 GCCAGGGCTCCAAAGAACTCGGAGACGTTCTTCCAGATGGCTGAAGTCCACAGGAGA 351
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 470 TCAACGAGAGCTTGATGAAATTTTAAAAATTTCCAAAGAGATTATCCATGAGCTGG 529
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 352 TCAGAAATCAAGCTGGAAGAAATGTGAAGTCTTTTCAAGAGAGCTGTTACGAGCTGG 411
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 530 AGAAGAGATGAACTTGAAGTGAATATATGAACGCACTCTAAAAAGATACCAACAG 589
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 412 AGCAGAAAGTGAAGCTGATCTCAAGATATCTGAAGTGTGGCTAAAGAAATACAGACTG 471
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 590 AACACAGATTAATTAATGAGCTTTTGAAGAAATCCCAAGTGAAGTGAAGAAATCAAG 649
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 472 AGCAAGAGAGCAAGGCGAGCCCTGGAAGAGTGTGAGCTGAGCTTAAGAAAGCTTGG 531
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 650 GGAAGAGCCAAAGAGCCGAAACGCACTCAATATGAACCAAGAAATGAGTATGG 709
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 532 AGAAGAGCCAGGCGAGCAAAATCTTGAAGATCTGAGACAGAGTCAAGTCAATCG 591
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 710 AGACCTTACTTCTCGTCAAGTGAATTCAGAAATTCATTCAGATGTTGCAAGAG 769
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 592 ACCCCATCAAGCAAGAGGCGAGCTGGAAGATTCAGTGTCCGACGCGCTCAAGACG 651
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 770 CTCTGCTGAAGAGAGGCGCTTCTGCTTCTGCTTGAAGTGAAGTGAAGTGAAGTGAAG 829
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 652 CACTGACAGAGAGTGAAGGCGCTTCTGCTTCTGCTTGAAGTGAAGTGAAGTGAAGTGAAG 711
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 830 ACCACATACATTAATTAATCACTTACAGTCTGAGAACTAGTAATTCAGAGTGGCTGG 889
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 712 AGAAGTCCGGGCGCTACCTCAAGAGGCAAGAGCTGCTCCGAGAAAGTGGCTGCT 771
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 890 GGCAGAGAGCTGTGTTGATGCCATCAAGTGCAGAGAAATCATGAAATGATGAGAG 949
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 772 GGCAGAGAGCTGTGCGGAGCCCGCAAGATCCCGAGCGCGGTGACGCTCAATGACG 831
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 950 AATTAAGAGCCCAAGCTCTTACCCCG 975
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 832 AGGTGGCCAGCAAGCGGCGCACCTCT 857
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```

RESULT 2

US-09-270-117-2

Sequence 2, Application US/09270117

Patent No. 626550

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Lal, Preeti

APPLICANT: Shah, Puri

TITLE OF INVENTION: INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/270,117

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 06/878,563

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0323 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 2080 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: BRSTNOT04

CLONE: 918158

US-09-270-117-2

Query Match

Best Local Similarity 59.2%; Pred. No. 1.6e-48;

Matches 442; Conservative 0; Mismatches 304; Indels 0; Gaps 0;

```

OY 230 CCGAGAGAGTGAACCGGCTACGAGACACCTACCGGAATGTTATGGAACAGTTCAATC 289
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 112 CAGAGAGAGTGAACCGGCTACGAGACACCTACCGGAATGTTATGGAACAGTTCAATC 171
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 290 CTGGGCTGCGAAATTTAATAACCTTGAGGAAAAATTTAGAAAGCTGTAAGCTATGA 349
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 172 CTAGCTCCGGAATCTTATGCGCATGAGGAAAGATTCAGAAAGGCACTGGCAGGTGTA 231
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 350 TCCTGCGAGAGAAAGCTTACTACATGAGTGGCCAAAGATCGGTAGATTGCCACTGGT 409
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 292 GCCAGGGCTCCAAAGAACTCGGAGACGTTCTTCCAGATGGCTGAAGTCCACAGGAGA 351
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 470 TCAACGAGAGCTTGATGAAATTTTAAAAATTTCCAAAGAGATTATCCATGAGCTGG 529
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 352 TCAGAAATCAAGCTGGAAGAAATGTGAAGTCTTTTCAAGAGAGCTGTTACGAGCTGG 411
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 530 AGAAGAGATGAACTTGAAGTGAATATATGAACGCACTCTAAAAAGATACCAACAG 589
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 412 AGCAGAAAGTGAAGCTGATCTCAAGATATCTGAAGTGTGGCTAAAGAAATACAGACTG 471
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 590 AACACAGATTAATTAATGAGCTTTTGAAGAAATCCCAAGTGAAGTGAAGAAATCAAG 649
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 472 AGCAAGAGAGCAAGGCGAGCCCTGGAAGAGTGTGAGCTGAGCTTAAGAAAGCTTGG 531
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 650 GGAAGAGCCAAAGAGCCGAAACGCACTCAATATGAACCAAGAAATGAGTATGG 709
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 532 AGAAGAGCCAGGCGAGCAAAATCTTGAAGATCTGAGACAGAGTCAAGTCAATCG 591
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 710 AGACCTTACTTCTCGTCAAGTGAATTCAGAAATTCATTCAGATGTTGCAAGAG 769
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 592 ACCCCATCAAGCAAGAGGCGAGCTGGAAGATTCAGTGTCCGACGCGCTCAAGACG 651
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 770 CTCTGCTGAAGAGAGGCGCTTCTGCTTCTGCTTGAAGTGAAGTGAAGTGAAGTGAAG 829
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 652 CACTGACAGAGAGTGAAGGCGCTTCTGCTTCTGCTTGAAGTGAAGTGAAGTGAAGTGAAG 711
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```


APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0323-1 CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-845-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ. ID NO.: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2328 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: ADRETTUT05
CLONE: 2493150
US-09-046-572-4

Query Match 11.5%; Score 241.6; DB 3; Length 2328;
Best Local Similarity 58.0%; Pred. No. 1.9e-44;
Matches 427; Conservative 0; Mismatches 309; Indels 0; Gaps 0;
QY 240 GAAACCGCTCAGAGAGCACTACCGGAATGTTATGAAACAGTTCAATCCTGGGCTGCG 299
DB 278 GAACTTTCGTGGAGAGTTGGGAGGAGCAATCATGAGACAGTTCAACCTAGCCTCCG 337
QY 300 AATTTATTAACCTGGGAAAAATTATGAGAAAGCTGTAAAGCTATATGATCTGGCAGG 359
DB 338 GAACCTTCATGCGCATGGGGAAGAAATTAAGAAAGGCACTGGCAGGTGTGACGTATGAGC 397
QY 360 AAAAGCTACTACGATGAGAGGCGCAAGATCGGTGAGATTGCCACTGGGTCCTCCGCTGTC 419
DB 398 CAAAGGCTACTTGGACCCCTGGTGAAGATGGGGAGCTGGCCAGGAGCCAGGAGCTC 457
QY 420 AACTGAACTGGGACATGCTCCTCATAGATTTCAAGTACCACAAAGAACTCAACGAGAG 479
DB 458 CAAAGAACTCGAAGACCTTCTTCCAGATGGCTGAAGTCCACAGGACAGATCCAGATCA 517
QY 480 TCTGTATGAAAAATTTAAAAATTTCCCAAGAGATTTATCATGAGCTGGAGAAAGAT 539
DB 518 GCTGGAAGAAATCTGTAAGTCTTTTCAACAGAGCTGCTTAACGAGCTGGAGCAAGGT 577
QY 540 AGAAGCTGAGTGAATATATGAAAGCACTTAAAAAGATACCAACAGAACAGAA 599
DB 578 GGAAGCTGAGTCCAGATCTGAGTGTGCTGCTGAAGAAATACCAAGCTGAGCAAGAG 637
QY 600 TAAATTAAGACTCTTTGAGAAATCCAAAGCTGAGTTGAAGAGATCAGAAAGAAACCA 659
DB 638 CAAAGGAGCGCCCTGAGCAAGTGTCAAGCTGAGCTGAAGAGCTTGGAAAGAGCA 697
QY 660 AGAAGCCGAAAGCACTCAATATATGAAACAAAGAAATGAGATATGAGAGACCTTAC 719
DB 698 GGGCAGCAAGAAATCTTAGAAGTACTGGAACAAGAGACTCAGTACATGACGCAATCAG 757
QY 720 TTCTGTCAGAGTGAATCCAGAAATTCATTGCGAGATGTTGCAAAAGAGCTGCTTGA 779
DB 758 CAAACAGCAGGCGGAGCTGAGAAATTAAGTGTCCGAGGCTTCAAGACCGCACTGACAGA 817
QY 780 AGAAGAGGCGCTTCTGCTTTCTGTGTATTAAGCACTGTGCTTTGCAAAACCAATACA 839
DB 818 GGAAGCGAGCGCTTCTGCTTCTGCTGAGAAAGCAATGCGCGCTGCAAGAACTCCGC 877
QY 840 TTATATACCTTACAGTCTGAGAACTCACTGAATTCAGACTGCTGGTGGCAGAGAC 899
DB 878 GGCCTACCACTCCAAAGGCAAGAGCTGCTGCGCAAGAACTGCGGTGTCGCAACAGGC 937
QY 900 CTGTGTATGATGATCAATGATGAGAGAAATCATGAATATGATCAAGAAATTAAGAC 959
DB 938 CTGTGCGGAGCCCAAGCAAGATCCGAGAGCCGCGGTGACACTATGACAGAGGTGGCAG 997
QY 960 CCAAGCCTTACCCCC 975

Db 998 CAAAGGCGGCGGAGCTC 1013
RESULT 5
US-09-907-794A-376
Sequence 376, Application US/09907794A
Patent No. 6635468
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05

NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-907-794A-376

Query Match
Best Local Similarity 81.4%; Score 82.8; DB 3; Length 997;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 1979 ATATTTCCTCTATCTGTTCAAGAAACAGTAACCTGTTCAATCTTTAAAAA 2038
DB 869 ATAGTATTGTTCTGATCAAAATATAATAGTTTAAATGTTAAAAA 928

QY 2039 AA 2096
DB 929 AA 986

RESULT 6

US-09-905-125A-376
Sequence 376, Application US/09905125A

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,125A
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05

PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-905-125A-376

Query Match
Best Local Similarity 81.4%; Score 82.8; DB 3; Length 997;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 1979 ATATTTCCTCTATCTGTTCAAGAAACAGTAACCTGTTCAATCTTTAAAAA 2038
DB 869 ATAGTATTGTTCTGATCAAAATATAATAGTTTAAATGTTAAAAA 928

QY 2039 AA 2096
DB 929 AA 986

RESULT 7

US-09-902-775A-376

Sequence 376, Application US/09902775A

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,775A
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22

PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30035
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-902-775A-376

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. No. 7,4e-09;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
QY 1979 ATATTTCCTTCATCTGTCAGAAACAGTAACTTGTTCAATCTTTAAAAA 2038
DB 869 ATTAGATTGTTACTCTGATACAAATTAAGTATTAAATGTTAAAAA 928
QY 2039 AA 2096
DB 929 AA 986

RESULT 8
US-09-906-700-376
Sequence 376, Application US/09906700
Patent No. 672535
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Pilyavoff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Guiney, Austin L.
APPLICANT: Hillan, Kenneth, J.

APPLICANT: Kijavlin, Ivar U.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OR INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,700
CURRENT FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30035
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-906-700-376

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. No. 7,4e-09;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
QY 1979 ATATTTCCTTCATCTGTCAGAAACAGTAACTTGTTCAATCTTTAAAAA 2038
DB 869 ATTAGATTGTTACTCTGATACAAATTAAGTATTAAATGTTAAAAA 928
QY 2039 AA 2096
DB 929 AA 986

RESULT 9
US-09-903-603A-376
Sequence 376, Application US/09903603A
Patent No. 676795
GENERAL INFORMATION:

APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: GNR.16182C12
CURRENT FILING DATE: US/09/903,603A
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-903-603A-376

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. NO. 7,46-09;

Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
QY 1979 ATATTTCTTCCTATTCCTGTTCAAGAAACAGTAACTGGTTCAATCTTTAAAAAAA 2038
Db 869 ATAAATATTTGTTACTCTGATACAAATATAATAGTTTAAATCTTAAAAAAA 928
QY 2039 AA 2096
Db 929 AA 986

RESULT 10
US-09-904-920A-376
Sequence 376 Application US/09904920A
Patent No. 6806352
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT FILING DATE: US/09/904,920A
CURRENT FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095


```

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,381A
PRIOR FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30939
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-905-381A-376

Query Match          4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. No. 7,4e-09;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Oy 1979 ATATTTCCTCCTATCTCTGTTCAAGAAACAGTAAACCTGGTTCAATCTTTAAAAA 2038
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 869 ATAAGTATTTCTCTCTGATACCAATATTAAGTGTATTAAAGTTAAAAA 928
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Oy 2039 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2096
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 929 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 986
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 13
US-09-906-618-376
Sequence 376, Application US/0906618
Patent No. 6828146
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang

```



```

: RESULT 14
: SEQ ID NO 376
: Sequence 376, Application US/09906646
: Patent No. 6852848
: GENERAL INFORMATION:
: APPLICANT: Genentech, Inc.
: APPLICANT: Ashkenazi, Avi
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan L.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, A.
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth, J.
: APPLICANT: Kljavin, Ivar J.
: APPLICANT: Mather, Jennie P.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William, I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: 10466-14
: CURRENT APPLICATION NUMBER: US/09/906,646
: CURRENT FILING DATE: 2002-01-22
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: 2000-02-22
: PRIOR APPLICATION NUMBER: US 60/143,048
: PRIOR FILING DATE: 1999-07-07
: PRIOR APPLICATION NUMBER: US 60/145,698
: PRIOR FILING DATE: 1999-07-26
: PRIOR APPLICATION NUMBER: US 60/146,222
: PRIOR FILING DATE: 1999-07-28
: PRIOR APPLICATION NUMBER: PCT/US99/20594
: PRIOR FILING DATE: 1999-09-08
: PRIOR APPLICATION NUMBER: PCT/US99/20944
: PRIOR FILING DATE: 1999-09-13
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/21547
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/23089
: PRIOR FILING DATE: 1999-10-05
: PRIOR APPLICATION NUMBER: PCT/US99/28214
: PRIOR FILING DATE: 1999-11-29
: PRIOR APPLICATION NUMBER: PCT/US99/28313
: PRIOR FILING DATE: 1999-11-30
: PRIOR APPLICATION NUMBER: PCT/US99/28564
: PRIOR FILING DATE: 1999-12-02
: PRIOR APPLICATION NUMBER: PCT/US99/28565
: PRIOR FILING DATE: 1999-12-02
: PRIOR APPLICATION NUMBER: PCT/US99/30095
: PRIOR FILING DATE: 1999-12-16
: PRIOR APPLICATION NUMBER: PCT/US99/30911
: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US99/30999
: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US00/00219
: PRIOR FILING DATE: 2000-01-05
: NUMBER OF SEQ ID NOS: 423
: SEQ ID NO 376

```

```

/ LENGTH: 997
/ TYPE: DNA
/ ORGANISM: Homo Sapien
US-09-906-646-376

Query Match      4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarly 81.4%; Pred. No. 7.4e-09;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY      1979  ATATTTCTCCCTTCCTGTTCAAGAAACAGTAACCTGGTTTCATCTTTAAAAAAA 2038
DB      869   ATAGATTTGTTCTCTGATACAAATAAATAGAGTTTAAATGTTAAAAAAA 928

QY      2039  AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2096
DB      929   AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 986

RESULT 15
/ Sequence 376, Application US/09904462
/ Patent No. 6878807
/ GENERAL INFORMATION:
/ APPLICANT: Genentech, Inc.
/ APPLICANT: Ashkenazi, Avi
/ APPLICANT: Botstein, David
/ APPLICANT: Desmoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Geider, Hanspeter
/ APPLICANT: Gertlesen, Mary E.
/ APPLICANT: Goddard, A.
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Kljavin, Ivar J.
/ APPLICANT: Mather, Dianne P.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: 10466-14
/ CURRENT APPLICATION NUMBER: US/09/904,462
/ PRIOR FILING DATE: 2001-07-13
/ PRIOR APPLICATION NUMBER: 09/665,350
/ PRIOR FILING DATE: 2000-09-18
/ PRIOR APPLICATION NUMBER: PCT/US00/04414
/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: US 60/143,048
/ PRIOR FILING DATE: 1999-07-07
/ PRIOR APPLICATION NUMBER: US 60/145,698
/ PRIOR FILING DATE: 1999-07-26
/ PRIOR APPLICATION NUMBER: US 60/146,222
/ PRIOR FILING DATE: 1999-07-28
/ PRIOR APPLICATION NUMBER: PCT/US99/20594
/ PRIOR FILING DATE: 1999-09-08
/ PRIOR APPLICATION NUMBER: PCT/US99/20944
/ PRIOR FILING DATE: 1999-09-13
/ PRIOR APPLICATION NUMBER: PCT/US99/21090
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/21547
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/23089
/ PRIOR FILING DATE: 1999-10-05

```

```

1 PRIOR APPLICATION NUMBER: PCT/US99/28214
2 PRIOR FILING DATE: 1999-11-29
3 PRIOR APPLICATION NUMBER: PCT/US99/28133
4 PRIOR FILING DATE: 1999-11-29
5 PRIOR APPLICATION NUMBER: PCT/US99/28564
6 PRIOR FILING DATE: 1999-12-02
7 PRIOR APPLICATION NUMBER: PCT/US99/28565
8 PRIOR FILING DATE: 1999-12-02
9 PRIOR APPLICATION NUMBER: PCT/US99/30095
10 PRIOR FILING DATE: 1999-12-16
11 PRIOR APPLICATION NUMBER: PCT/US99/30911
12 PRIOR FILING DATE: 1999-12-30
13 PRIOR APPLICATION NUMBER: PCT/US99/30999
14 PRIOR FILING DATE: 1999-12-30
15 PRIOR APPLICATION NUMBER: PCT/US00/00219
16 PRIOR FILING DATE: 2000-01-05
17 NUMBER OF SEQ ID NOS: 423
18
19 SEQ ID NO 376
20
21 LENGTH: 997
22
23 TYPE: DNA
24
25 ORGANISM: Homo Sapien
26
27 US-09-904-462-376

```

	Query Match	Score	DB	Length
Best Local Similarity	81.4%	82.8	DB 3	997
Matches	Conservative	0	Mismatches	22
			Indels	0
			Gaps	0

Search completed: March 20, 2006, 16:06:09
Job time : 382 secs

1	2096	100.0	2096	9	US-10-801-592-1	Sequence 1, App1
2	2025.2	96.6	2527	9	US-10-756-149-4599	Sequence 4599, App1
3	1514.6	72.3	2471	7	US-10-112-944-33	Sequence 33, App1
4	1448.4	69.1	1510	7	US-10-112-944-523	Sequence 523, App1
5	1216.4	58.0	2120	6	US-10-172-118-1805	Sequence 1805, App1
6	1216.4	58.0	2120	7	US-10-342-887-1805	Sequence 1805, App1
7	1071	7.29	1729	9	US-10-450-763-9761	Sequence 9761, App1
8	1021.2	48.17	1993	9	US-10-450-763-9762	Sequence 9762, App1
9	594	28.3	625	5	US-10-066-543-481	Sequence 481, App1
10	576.4	27.5	1242	5	US-09-925-501-269	Sequence 269, App1
11	576.2	27.5	641	5	US-10-066-543-1950	Sequence 990, App1
12	556	26.5	559	3	US-09-878-134-4321	Sequence 252, App1
13	520.8	24.8	539	5	US-10-066-543-321	Sequence 321, App1
14	488	22.3	511	3	US-09-960-253-83	Sequence 83, App1
15	470.4	22.4	512	3	US-09-960-253-90	Sequence 90, App1
16	329	13.7	449	3	US-10-450-763-9759	Sequence 9759, App1
17	274.8	13.1	439	9	US-10-450-763-9760	Sequence 9760, App1
18	259.6	12.4	2080	6	US-10-435-324-2	Sequence 2, App1
19	255.4	12.2	295	3	US-09-867-701.2669	Sequence 2669, App1
20	241.6	11.5	2338	6	US-10-435-324-4	Sequence 4, App1
21	240.2	11.5	45698	9	US-09-984-429-344	Sequence 344, App1
22	227.4	10.8	1415	9	US-10-970-760-1	Sequence 1, App1
23	216.4	10.3	16181	3	US-09-764-847-1426	Sequence 1426, App1

```

      RESULT 1
US-10-801-292-1
; Sequence 1, Application US/10601292
; Publication No. US2005020246A1
GENERAL INFORMATION:
;
; APPLICANT: LEE, YI-CHAO
; APPLICANT: YUEN, POI-YEE
; APPLICANT: HUANG, YI-HUEI
; APPLICANT: WU, HUI-CHUAN
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITILE OF INVENTION: THERAPY OF CANCER
; FILE REFERENCE: 5422-2
; CURRENT APPLICATION NUMBER: US/10/801,292
; CURRENT FILING DATE: 2004-03-15
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 1
; LENGTH: 2096
; TYPE: DNA
; ORGANISM: Homo sapiens
; IS-10-801-292-1

```

[illegible]

QY 301 AATTATATAACCTGGGAAAAAATTATGAGAAAGCTGTAACGCTATGATCTGGACGA 350
 DB 301 AATTATATAACCTGGGAAAAAATTATGAGAAAGCTGTAACGCTATGATCTGGACGA 360
 QY 361 AAAGCTACTACATGAGAGTGGCCAAAGATCGTGAATTGCCACTGGGTCCCGGTGCA 420
 DB 361 AAAGCTACTACATGAGAGTGGCCAAAGATCGTGAATTGCCACTGGGTCCCGGTGCA 420
 QY 421 ACTGAACTGGGACAATGCTCTCATAGAGATTTCAAGTACCCCAAGAAATCTCAAGAGT 480
 DB 421 ACTGAACTGGGACAATGCTCTCATAGAGATTTCAAGTACCCCAAGAAATCTCAAGAGT 480
 QY 481 CTGATGAAAAATTTTAAAAAATTCACAAAGAGTTATTCATGAGCTGGAAGAAAGTA 540
 DB 481 CTGATGAAAAATTTTAAAAAATTCACAAAGAGTTATTCATGAGCTGGAAGAAAGTA 540
 QY 541 GAACTTGAACGTGAATATATGAAACGCACTCTAAAAAGATACCAACAGAACCAAGAT 600
 DB 541 GAACTTGAACGTGAATATATGAAACGCACTCTAAAAAGATACCAACAGAACCAAGAT 600
 QY 601 AATTAGAGCTTTTGGAGAAATCCCAAGCTGAGTGAAGAGATCAAGAGAAAGCCAA 660
 DB 601 AATTAGAGCTTTTGGAGAAATCCCAAGCTGAGTGAAGAGATCAAGAGAAAGCCAA 660
 QY 661 GGAAGCCGAAACGCACTCAATATGAAACAGAAAGAAATGATATGAGAGACCGTACT 720
 DB 661 GGAAGCCGAAACGCACTCAATATGAAACAGAAAGAAATGATATGAGAGACCGTACT 720
 QY 721 TCTGTCAGAGTGAATCCAGAAATTCATGAGAGTGGTGAAGAGGCTCTGCTTGA 780
 DB 721 TCTGTCAGAGTGAATCCAGAAATTCATGAGAGTGGTGAAGAGGCTCTGCTTGA 780
 QY 781 GGAAGAGGCGCTTCTGCTTTCTGTTGATGAAGCACTGCGCTTGAAGCCCATATCAT 840
 DB 781 GGAAGAGGCGCTTCTGCTTTCTGTTGATGAAGCACTGCGCTTGAAGCCCATATCAT 840
 QY 841 TATTATCACTTACAGTCTGAGAACTAAGATTTCCAAAGCTGCTCGGTGGAGAGACC 900
 DB 841 TATTATCACTTACAGTCTGAGAACTAAGATTTCCAAAGCTGCTCGGTGGAGAGACC 900
 QY 901 TGTGTTGATGTCATCAAGTGCAGAGAAATCATGAAATGATCGAAGAAATTAAGACC 960
 DB 901 TGTGTTGATGTCATCAAGTGCAGAGAAATCATGAAATGATCGAAGAAATTAAGACC 960
 QY 961 CCAAGCTCTACCCCGGTGTGGAATCTCTCAGGCTTCAACCATGATCGAGAGAAAT 1020
 DB 961 CCAAGCTCTACCCCGGTGTGGAATCTCTCAGGCTTCAACCATGATCGAGAGAAAT 1020
 QY 1021 GTGTTAGGAAAAATTACGACACCTTTCTAAATGCTCAACAAAGATGCCCGGCTCT 1080
 DB 1021 GTGTTAGGAAAAATTACGACACCTTTCTAAATGCTCAACAAAGATGCCCGGCTCT 1080
 QY 1081 TCAGGAGAGCATATACAGTCCCTTGATGATATGTTTAAATCCAGCCAGCGCTGCC 1140
 DB 1081 TCAGGAGAGCATATACAGTCCCTTGATGATATGTTTAAATCCAGCCAGCGCTGCC 1140
 QY 1141 CCGAATTCCAAAGGGAATTAATTCACAGATCTCCGAAGATCCAGATTACACGGA 1200
 DB 1141 CCGAATTCCAAAGGGAATTAATTCACAGATCTCCGAAGATCCAGATTACACGGA 1200
 QY 1201 TCAGTTTCGGTTGCAACGAGGAGTGAACATGATGAGAGAGAGAAAGTGAACCATCTTC 1260
 DB 1201 TCAGTTTCGGTTGCAACGAGGAGTGAACATGATGAGAGAGAGAAAGTGAACCATCTTC 1260
 QY 1261 CCGCAACATGCGGAGCTTCAACAGACCTTACAGCTTTGACAGGAGATGTCATACG 1320
 DB 1261 CCGCAACATGCGGAGCTTCAACAGACCTTACAGCTTTGACAGGAGATGTCATACG 1320
 QY 1321 CTGCTCATCCCGAGAGAGAGATGCTGCTATGAGAGACGAGCGTCCAAAGCG 1380
 DB 1321 CTGCTCATCCCGAGAGAGAGATGCTGCTATGAGAGACGAGCGTCCAAAGCG 1380
 QY 1381 AGGGGTTGTTCCCGTGTGCTGATACAGAAAGTGTGGAAGAAATGAGACAGAGCAGT 1440

DB 1381 AGGGGTTGTTCCCGTGTGCTGATACAGAAAGTGTGGAAGAAATGAGACAGAGCAGT 1440
 QY 1441 ACCGTGCCACCGCCAAAGCCCAACAGTGAAGATCAAGCACTGTGAATCTGTGAG 1500
 DB 1441 ACCGTGCCACCGCCAAAGCCCAACAGTGAAGATCAAGCACTGTGAATCTGTGAG 1500
 QY 1501 AATGAGAGTGTGCTATCCCGCCAGCGACTCTTGAATGCTGTGCTATGAGGAGAGCT 1560
 DB 1501 AATGAGAGTGTGCTATCCCGCCAGCGACTCTTGAATGCTGTGCTATGAGGAGAGCT 1560
 QY 1561 GCCGACAGAGAGCAGATTCGGCCAGAGACATCCACCTTTAAGGCCCGCAGCTCAAG 1620
 DB 1561 GCCGACAGAGAGCAGATTCGGCCAGAGACATCCACCTTTAAGGCCCGCAGCTCAAG 1620
 QY 1621 CCGGAGACCGCGGCTCTTAACGATGCGAACGGGACTGCAAAAGCGGCTTTCTCAGCGA 1680
 DB 1621 CCGGAGACCGCGGCTCTTAACGATGCGAACGGGACTGCAAAAGCGGCTTTCTCAGCGA 1680
 QY 1681 GAAAAACCCCTTGGCAGCTGGAACCTCCGCCGAGCTGTGACAGAAATGATCGCTGGCACC 1740
 DB 1681 GAAAAACCCCTTGGCAGCTGGAACCTCCGCCGAGCTGTGACAGAAATGATCGCTGGCACC 1740
 QY 1741 ATCATTCGATGAGAGAGACAGCAGGACTCTCCCGGCTCTTCCGTTCTCCCTGGGA 1800
 DB 1741 ATCATTCGATGAGAGAGACAGCAGGACTCTCCCGGCTCTTCCGTTCTCCCTGGGA 1800
 QY 1801 ATGATGGGCGCATCTCTGTGCGCACTGTCAGAGCTGCGGAACTTCAAGAGAGGCTT 1860
 DB 1801 ATGATGGGCGCATCTCTGTGCGCACTGTCAGAGCTGCGGAACTTCAAGAGAGGCTT 1860
 QY 1861 AACTTAATGCGGCTGTTAAGCAATCATGCTCTCTGTTTCAAGTATGAGTGGTTGAC 1920
 DB 1861 AACTTAATGCGGCTGTTAAGCAATCATGCTCTCTGTTTCAAGTATGAGTGGTTGAC 1920
 QY 1921 AAGTTTCTGCTTAAAGTAATGATGATATGATGATGATGATGATGATGATGATGAT 1980
 DB 1921 AAGTTTCTGCTTAAAGTAATGATGATGATGATGATGATGATGATGATGATGATGAT 1980
 QY 1981 ATTTTCTTCTATTCGTTTCAAGAAACAGTAACTTGGTTTCAATTTTAAAAA 2040
 DB 1981 ATTTTCTTCTATTCGTTTCAAGAAACAGTAACTTGGTTTCAATTTTAAAAA 2040
 QY 2041 AA 2096
 DB 2041 AA 2096

RESULT 2

US-10-756-149-4599

; Sequence 4599, Application US/10756149

; Publication No. US20050181375A1

; GENERAL INFORMATION:

; APPLICANT: Aziz, Nacasha

; APPLICANT: Zlotnik, Albert

; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND

; TITLE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER

; FILE REFERENCE: file

; CURRENT APPLICATION NUMBER: US/10/756,149

; NUMBER OF SEQ ID NOS: 5818

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 4599

; LENGTH: 2527

; TYPE: DNA

; ORGANISM: Homo Sapiens

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: (2508)..(2508)

; OTHER INFORMATION: n is a, c, g, or t

US-10-756-149-4599

Query Match 96.6%; Score 2025.2; DB 9; Length 2527;

Best Local Similarity 99.9%; Pred. No. 0;
Matches 2027; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTCCTCTGCTCCCTGMAAGAGCCAGGCGGGCTGCGCAAGTTTGGATTGTCAG 60
Db 1 CTCCTCTGCTCCCTGMAAGAGCCAGGCGGGCTGCGCAAGTTTGGATTGTCAG 60
QY 61 CGGAGACGCGCGGGGCACTCTCGGGCCGACGGCTGGGGGGCGACCTCCAGAGC 120
Db 61 CGGAGACGCGCGGGGCACTCTCGGGCCGACGGCTGGGGGGCGACCTCCAGAGC 120
QY 121 CCTTATGTCGCGCGCGCGCGCTCCCGCTGCGCGAGTCCGCGCGCCAGAGCGCG 180
Db 121 CCTTATGTCGCGCGCGCGCGCTCCCGCTGCGCGAGTCCGCGCGCCAGAGCGCG 180
QY 181 CGTCTCTCGCGCGCTTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
Db 181 CGTCTCTCGCGCGCTTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
QY 241 AACCGGCTCAGCGAGACCTTACCGGAAATGTTATGAAACAGTTCAATCCCTGGGCTGCG 300
Db 241 AACCGGCTCAGCGAGACCTTACCGGAAATGTTATGAAACAGTTCAATCCCTGGGCTGCG 300
QY 301 AATTTAATAAACCCTGGGGAATAATTAAGAAGAGCTGTAAAGCTATGATCTGCGCAGAG 360
Db 301 AATTTAATAAACCCTGGGGAATAATTAAGAAGAGCTGTAAAGCTATGATCTGCGCAGAG 360
QY 361 AAAAGCTACTACGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 420
Db 361 AAAAGCTACTACGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 420
QY 421 ACTGAACTGGGACATGCTCTCATAGAGATTTCAAGTACCACAAAGAACTCAACGAGAGT 480
Db 421 ACTGAACTGGGACATGCTCTCATAGAGATTTCAAGTACCACAAAGAACTCAACGAGAGT 480
QY 481 CTGTGATGAATAATTTTAAAAAATTTCCAAAGAGATTTATCATGAGCTGGAGAAAGATTA 540
Db 481 CTGTGATGAATAATTTTAAAAAATTTCCAAAGAGATTTATCATGAGCTGGAGAAAGATTA 540
QY 541 GAACTTGAAGTGAATATATGAAGCGCACTTAAAAAGATCCAAACAGACAGAGAT 600
Db 541 GAACTTGAAGTGAATATATGAAGCGCACTTAAAAAGATCCAAACAGACAGAGAT 600
QY 601 AAATTAAGATCTTTGGAGAAATCCCAAGCTGAGTTGAAGAGATCGAGAGAAAGCCAA 660
Db 601 AAATTAAGATCTTTGGAGAAATCCCAAGCTGAGTTGAAGAGATCGAGAGAAAGCCAA 660
QY 661 GGAAGCCGGAACGCACTCAATATGAAACAAAGAAATGAGATGAGAGACCGTTACT 720
Db 661 GGAAGCCGGAACGCACTCAATATGAAACAAAGAAATGAGATGAGAGACCGTTACT 720
QY 721 TCTCTGCAAGTGAATCCAGAAATTCATTGCAAGTGTGCAAGAGGCTCTGCTTGA 780
Db 721 TCTCTGCAAGTGAATCCAGAAATTCATTGCAAGTGTGCAAGAGGCTCTGCTTGA 780
QY 781 GAGAAGAGGCGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTT 840
Db 781 GAGAAGAGGCGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTT 840
QY 841 TATTAATCACTTACAGTCTGCAAGAACTTCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Db 841 TATTAATCACTTACAGTCTGCAAGAACTTCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
QY 901 TGTGTTGATGCAATCAAAAGTGCAGAGAAATCATGAATATGATGCAAGAAATTAAGAC 960
Db 901 TGTGTTGATGCAATCAAAAGTGCAGAGAAATCATGAATATGATGCAAGAAATTAAGAC 960
QY 961 CCAAGCTCTAACCCCGGTGTCTGAACTCTCAGAGCTTCAACCATGATGAGAGAGCAAT 1020
Db 961 CCAAGCTCTAACCCCGGTGTCTGAACTCTCAGAGCTTCAACCATGATGAGAGAGCAAT 1020
QY 1021 GTGTTAGAAAGATTAAGACACCTTTCTAAATGCTCAACAAAGATGCCCCGCTCT 1080

Db 1021 GTGTTAGAAAGATTAAGACACCTTTCTAAATGCTCAACAAAGATGCCCCGCTCT 1080
QY 1081 TCAAGCAGAGCATATACAGTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
Db 1081 TCAAGCAGAGCATATACAGTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
QY 1141 CCGAATTCACAAAGGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1200
Db 1141 CCGAATTCACAAAGGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1200
QY 1201 TCAAGTTTGGTTTGAACCGGAGCTGAAATGATGAAAGACAGAAAGTGAAGACATCTTC 1260
Db 1201 TCAAGTTTGGTTTGAACCGGAGCTGAAATGATGAAAGACAGAAAGTGAAGACATCTTC 1260
QY 1261 CCGCACACTGCGGGCTCCCAAGACCTTACTGCTTGGCAAGGGAATGTCATCAG 1320
Db 1261 CCGCACACTGCGGGCTCCCAAGACCTTACTGCTTGGCAAGGGAATGTCATCAG 1320
QY 1321 CTGCTCATCCCGAGAGAGAGATGAGTGGCTGCTGATGAGAAACAGACGCTGCAAGGCG 1380
Db 1321 CTGCTCATCCCGAGAGAGAGATGAGTGGCTGCTGATGAGAAACAGACGCTGCAAGGCG 1380
QY 1381 AGGGGTTGGTTCCGCTGCTGTAACAGAAATGCTGGAAGAAATGAGACAGAGAGAG 1440
Db 1381 AGGGGTTGGTTCCGCTGCTGTAACAGAAATGCTGGAAGAAATGAGACAGAGAGAG 1440
QY 1441 ACCGTGCCACCGCCAGAGCCCGCCACACAGTGAAGAGATGAGACAGAGAGAGAGAGAGAG 1500
Db 1441 ACCGTGCCACCGCCAGAGCCCGCCACACAGTGAAGAGATGAGACAGAGAGAGAGAGAGAG 1500
QY 1501 AATGACAGTGTGTATCCCGCCACCGGCTGTAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560
Db 1501 AATGACAGTGTGTATCCCGCCACCGGCTGTAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560
QY 1561 GCCGACAGAGAGAGAGATTTGGGCGAGAGAGATTCACCTTTAAGGCGCCGAGCTCAAG 1620
Db 1561 GCCGACAGAGAGAGAGATTTGGGCGAGAGAGATTCACCTTTAAGGCGCCGAGCTCAAG 1620
QY 1621 CCGGAGACCGGCGCTCTTAAAGATGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680
Db 1621 CCGGAGACCGGCGCTCTTAAAGATGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680
QY 1681 GAAAGACCCCTTGGCAGCTGTAAGCTCGCCCGGAGCTGAGAGAGAGAGAGAGAGAGAGAGAG 1740
Db 1681 GAAAGACCCCTTGGCAGCTGTAAGCTCGCCCGGAGCTGAGAGAGAGAGAGAGAGAGAGAGAG 1740
QY 1741 ATGATTCAGATGAG 1800
Db 1741 ATGATTCAGATGAG 1800
QY 1801 ATGATTCAGATGAG 1860
Db 1801 ATGATTCAGATGAG 1860
QY 1861 AACTTAATGTCGCTGCTTAAAGCAATCATGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTT 1920
Db 1861 AACTTAATGTCGCTGCTTAAAGCAATCATGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTT 1920
QY 1921 AAGTTTCTGCTTAAAGTAAATGAGTAAATGAGTAAATGAGTAAATGAGTAAATGAGTAAAT 1980
Db 1921 AAGTTTCTGCTTAAAGTAAATGAGTAAATGAGTAAATGAGTAAATGAGTAAATGAGTAAAT 1980
QY 1981 AATTTCTCTGCTTAAAGTAAATGAGTAAATGAGTAAATGAGTAAATGAGTAAATGAGTAAAT 2040
Db 1981 AATTTCTCTGCTTAAAGTAAATGAGTAAATGAGTAAATGAGTAAATGAGTAAATGAGTAAAT 2040

RESULT 3
US-10-112-944-39
; Sequence 39, Application US/10112944
; Publication No. US20040048249A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom

APPLICANT: Yang, Yonghong
APPLICANT: Meng, Gezhi
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Xue, Aidong J.
APPLICANT: Wang, Jian-Rui
APPLICANT: Wehrman, Tom
APPLICANT: Ghosh, Malabika
APPLICANT: Wang, Dunrui
APPLICANT: Zhao, Qing A.
APPLICANT: Wang, Zhiwei
TITLE OF INVENTION: No. US20040048249A1el Nucleic Acids and
FILE REFERENCE: Secreted Polypeptides
FILE REFERENCE: 805A
CURRENT APPLICATION NUMBER: US/10/112,944
CURRENT FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: US 09/488,725
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US 09/491,404
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: US 09/496,914
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: US 09/515,126
PRIOR FILING DATE: 2000-02-28
PRIOR APPLICATION NUMBER: US 09/519,705
PRIOR FILING DATE: 2000-03-07
PRIOR APPLICATION NUMBER: US 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: US 09/552,929
PRIOR FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: US 09/577,408
PRIOR FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 924
SOFTWARE: pc_FL_genes Version 5.0
SEQ ID NO 39
LENGTH: 2471
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (61)..(1251)
US-10-112-944-39

Query Match 72.3%; Score 1514.6; DB 7; Length 2471;
Best Local Similarity 99.7%; Pred. No. 1.9e-306;
Matches 1528; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

499 AAATTCACAAAGAGATTATCCATGAGCTGAGAGAGAGATGAACTTGACGTGAATAT 558
1 AAATTCACAAAGAGATTATCCATGAGCTGAGAGAGATGAACTTGACGTGAATAT 60
559 ATGAACGCACTCTATAAAGATACCAACAGAACACAGAAATTAATTAAGTCTTTGGAG 618
61 ATGAACGCACTCTATAAAGATACCAACAGAACACAGAAATTAATTAAGTCTTTGGAG 120
619 AAATCCCAAGCTGAGTTGAAGAAGATCAGAGAGAAAGCAAGAACGCAAGCACTC 678
121 AAATCCCAAGCTGAGTTGAAGAAGATCAGAGAGAAAGCAAGAACGCAAGCACTC 180
679 AAATATGAACACAAAGAAATTAAGTATGTGAGACCGTTACTTCTGTCAGAGTGAATC 738
181 AAATATGAACACAAAGAAATTAAGTATGTGAGACCGTTACTTCTGTCAGAGTGAATC 240
739 CAGAAATTCATGAGATGCTGCAAGAGGCTGCTGAGAGAGAGAGGCGCTTCTG 798
241 CAGAAATTCATGAGATGCTGCAAGAGGCTGCTGAGAGAGAGAGGCGCTTCTG 300
799 TTTCTGTTGATAGAGACTGTGCTTGGCAACCAATACATTAATTAATCACTCACT 858
301 TTTCTGTTGATAGAGACTGTGCTTGGCAACCAATACATTAATTAATCACTCACT 360
859 GCAGAACTATGTAATTCAGAGCTGCTGCTGAGAGAGAGAGCTGTGTTATGTCATCAA 918

361 GCAGAACTATGTAATTCAGAGCTGCTGCTGAGAGAGAGAGCTGTGTTATGTCATCAA 420
919 GTGCCAGAGAAATATGTAATTCAGAGAAATTAAGAGAGAGAGAGAGAGAGAGAGAG 978
421 GTGCCAGAGAAATATGTAATTCAGAGAAATTAAGAGAGAGAGAGAGAGAGAGAGAG 480
979 TCTGGAATCTCTCAGAGCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1038
481 TCTGGAATCTCTCAGAGCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
1039 GACACCTCTTAAATGCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1098
541 GACACCTCTTAAATGCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
1099 AGTCCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1158
601 AGTCCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
1159 AATTAATTCAGAGTACTTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1218
661 AATTAATTCAGAGTACTTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
1219 GGAAGTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1278
721 GGAAGTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
1279 AACAGAGCTTATCTAGCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1338
781 AACAGAGCTTATCTAGCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
1339 AAGAGTGGCTGCTCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1398
841 AAGAGTGGCTGCTCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
1399 TGTATACAGAGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1458
901 TGTATACAGAGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
1459 CCCACAGAGTGAAG 1518
961 CCCACAGAGTGAAG 1020
1519 CCCACAGAGTGAAG 1578
1021 CCCACAGAGTGAAG 1080
1579 TGGCCAG 1638
1081 TGGCCAG 1140
1639 AAGAGTGGCTGCTCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1698
1141 AAGAGTGGCTGCTCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
1699 GTGAAGTGGCTGCTCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1758
1201 GTGAAGTGGCTGCTCTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
1759 AAGCAAG 1818
1261 AAGCAAG 1320
1819 GTGCCAGAGTGAAG 1878
1321 GTGCCAGAGTGAAG 1380
1879 TTAAGCAATGATG-CTTCTGTTTACAGTATGTTGAGTGAAGTGTGCTTCTGAG 1937
1381 TTAAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1440
1938 AATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1997
1441 AATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1500

QY 1998 TTCAGAAACAGTAACTGGTTTCATCTTTA 2030
DB 1501 TTCAGAAACAGTAACTGGTTTCATCTTTA 1533

RESULT 4
US-10-112-944-523
Sequence 523, Application US/10112944
Publication No. US20040048249A1
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Yang, Yonghong
APPLICANT: Weng, Gezh
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Xue, Aidong J.
APPLICANT: Wang, Jian-Rui
APPLICANT: Wehrman, Tom
APPLICANT: Ghosh, Malabika
APPLICANT: Wang, Dunrui
APPLICANT: Zhao, Qing A.
APPLICANT: Wang, Zhiwei
TITLE OF INVENTION: No. US20040048249A1 Nucleic Acids and
TITLE OF INVENTION: Secreted Polypeptides
FILE REFERENCE: 805A
CURRENT FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: US/10/112,944
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US 09/488,725
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US 09/491,404
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: US 09/496,914
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: US 09/515,126
PRIOR FILING DATE: 2000-02-28
PRIOR APPLICATION NUMBER: US 09/519,705
PRIOR FILING DATE: 2000-03-07
PRIOR APPLICATION NUMBER: US 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: US 09/552,929
PRIOR FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: US 09/577,408
PRIOR FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 924
SOFTWARE: pc FL_genes Version 5.0
SEQ ID NO 523
LENGTH: 1510
TYPE: DNA
ORGANISM: Homo sapiens
US-10-112-944-523

Query Match 69.1%; Score 1448.4; DB 7; Length 1510;
Bec Local Similarity 99.2%; Pred. No. 1.1e-292;
Matches 1498; Conservative 0; Mismatches 6; Indels 6; Gaps 4;

QY 217 ATGTCCCGGGGCGCGAGAGGTGAACCGGCTCAGCGAGAGGACCTACCGGAATGTTATG 276
DB 1 ATGTCCCGGGGCGCGAGAGGTGAACCGGCTCAGCGAGAGGACCTACCGGAATGTTATG 60

QY 277 GAACAGTTCAATCTGGGCTCGGAAATTTAACTGGGAAAAATTTATGAGAAAGCT 336
DB 61 GAACAGTTCAATCTGGGCTCGGAAATTTAACTGGGAAAAATTTATGAGAAAGCT 120

QY 337 GTAACGCTATGATCTTGCGCGAGAAAGCTTAAGATGAGTGGCCAGATGGGTAG 396
DB 121 GTAACGCTATGATCTTGCGCGAGAAAGCTTAAGATGAGTGGCCAGATGGGTAG 180

QY 397 ATTCGCACTGGGTCCCGGTGTCAAC-TGAACCTGGGACATGCTCATGAGATTTCAG 455
DB 181 ATTCGCACTGGGTCCCGGTGTCAAC-TGAACCTGGGACATGCTCATGAGATTTCAG 240

QY 456 TACCAACAAGAAC-TCAACGAGAGCTT---GATGAAAAATTTAAAAATTTCCAAAG 511

DB 241 TACCAACAAGAACCTTCAACGAGAGCTTTGATGAGAAATTTTAAAAATTTCCAAAG 300

QY 512 AGATTATCCATGAGCTGGAGAGAAAGATGAACTT-GAGGTGAAATATATGAAAGCACT 570

DB 301 AGATTATCCATGAGCTGGAGAGAAAGATGAACTTGGACGTGAATATATGAAAGCACT 360

QY 571 CTTAAAAATATCCAAACGAAACACAAAGATTAATTTAGAGTCTTTGGAGAAATCCCAAGT 630

DB 361 CTTAAAAATATCCAAACGAAACACAAAGATTAATTTAGAGTCTTTGGAGAAATCCCAAGT 420

QY 631 GAGTTGAAGAGATCAGAAAGGAAAGCAAGGAAAGCAAGGCACTCAATATGAAACAC 690

DB 421 GAGTTGAAGAGATCAGAAAGGAAAGCAAGGAAAGCAAGGCACTCAATATGAAACAC 480

QY 691 AAAGAAATTTGATATGTGAGACCGTTAATTCTGTCAGAGTGAATCCAGAAATTCATT 750

DB 481 AAAGAAATTTGATATGTGAGACCGTTAATTCTGTCAGAGTGAATCCAGAAATTCATT 540

QY 751 GCAGATGCTTGGCAAGAGGCTCTGCTTGAAGAGAGAGGCGCTTCTTCTGTTGAT 810

DB 541 GCAGATGCTTGGCAAGAGGCTCTGCTTGAAGAGAGAGGCGCTTCTTCTGTTGAT 600

QY 811 AAGCACTGTGCTTGGCAAGCAACATATATTATCACTTACAGTCTGAGAACTACTG 870

DB 601 AAGCACTGTGCTTGGCAAGCAACATATATTATCACTTACAGTCTGAGAACTACTG 660

QY 871 AATTCAGAGCTGCTCGGTGCGAGAGACCTGTGTTGATGCCATCAAGTCCAGAGAA 930

DB 661 AATTCAGAGCTGCTCGGTGCGAGAGACCTGTGTTGATGCCATCAAGTCCAGAGAA 720

QY 931 ATCATGATATGATGCAAGAAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 990

DB 721 ATCATGATATGATGCAAGAAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780

QY 991 CAGGCTTCACCATGATGAG 1050

DB 781 CAGGCTTCACCATGATGAG 840

QY 1051 AAATGCTACCAAGAGATGAG 1110

DB 841 AAATGCTACCAAGAGATGAG 900

QY 1111 GATATGTTTAAATTAACCAAG 1170

DB 901 GATATGTTTAAATTAACCAAG 960

QY 1171 GGTACTTCCGAAGATCCAGATTTAACAGGATCAGTTTCGTTGCAACGAGAGAGAGAGAG 1230

DB 961 GGTACTTCCGAAGATCCAGATTTAACAGGATCAGTTTCGTTGCAACGAGAGAGAGAGAG 1020

QY 1231 ATGAAG 1290

DB 1021 ATGAAG 1080

QY 1291 CTGAGCTTTGCAAG 1350

DB 1081 CTGAGCTTTGCAAG 1140

QY 1351 CTTATGAG 1410

DB 1141 CTTATGAG 1200

QY 1411 TTGCTGGAAGAAATGAG 1470

DB 1201 TTGCTGGAAGAAATGAG 1260

QY 1471 AGAAGCATCAGACAG 1530

DB 1261 AGAAGCATCAGACAG 1320

QY 1531 TACTTGAATGCTTGTCCATGAG 1590

Db 1321 TACTTGGAATGCTTATTCATGCGGGGAGCTGCCGAGAGAGAGCAATTCGGCCAGGACG 1380
QY 1591 ACATCCACCTTTAAGCCCGCCAGGCTCGAAGCCGAGACCCGGCTCTCTAAGATGCCAAC 1650
Db 1381 ACATCCACCTTTAAGCCCGCCAGGCTCGAAGCCGAGACCCGGCTCTCTAAGATGCCAAC 1440
QY 1651 GGGGCTGCAAGCCGCTTTTCTCAGGGGAGAGAAACCCCTTGGCACTGTGAAAATCCCGC 1710
Db 1441 GGGGCTGCAAGCCGCTTTTCTCAGGGGAGAGAAACCCCTTGGCACTGTGAAAATCCCGC 1500
QY 1711 CCGACTGTGA 1720
Db 1501 CCGACTGTGA 1510

RESULT 5

US-10-172-118-1805
; Sequence 1805, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 1805
; LENGTH: 2120
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: NM_018842
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-1805

Query Match 58.0%; Score 1216.4; DB 6; Length 2120;
Best Local Similarity 98.3%; Pred. No. 4.4e-244;
Matches 1229; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 232 GAGGAGGTGAACCGGCTCAAGAGACCTACCGGAATGTTATGAGAGATTCAATTCCT 291
Db 292 GTGGGGGTGAACCTCCCTGTATTTAGATCGCAGAAATTTATGGAACAGTTCAATTCCT 351
QY 292 GGGCTGCGAATTTAATAAAGCTGGGAAAAATTTATGAGAAAGCTGTAAAGCTTATGATC 351
Db 352 GGGCTGCGAATTTAATAAAGCTGGGAAAAATTTATGAGAAAGCTGTAAAGCTTATGATC 411
QY 352 CTGGCGAGAAAAGCTTACTACATGAGAGTGGCCAAATGCGTGAATTTGGCACTGGGTCC 411
Db 412 CTGGCGAGAAAAGCTTACTACATGAGAGTGGCCAAATGCGTGAATTTGGCACTGGGTCC 471
QY 412 CCGGTGTCAACTGAACCTGGGAGCATGCTCATAGAGATTTCAGATCCCAAGAAATC 471
Db 472 CCGGTGTCAACTGAACCTGGGAGCATGCTCATAGAGATTTCAGATCCCAAGAAATC 531
QY 472 AACGAGTCTTGAATGAAAAATTTAAAAATTCACAAAGATTTATTCATGAGCTGGAG 531
Db 532 AACGAGTCTTGAATGAAAAATTTAAAAATTCACAAAGATTTATTCATGAGCTGGAG 591
QY 532 AAGAAATTAAGTCTGAGCGTGAATTTATGAGAGCAACTCTAAAAAGATCCAAACAGAA 591
Db 592 AAGAAATTAAGTCTGAGCGTGAATTTATGAGAGCAACTCTAAAAAGATCCAAACAGAA 651
QY 592 CACAAAGATTAATGAGTCTTTGAGAGAAATCCCAAGCTGAGTTGAAAGAAATCAGAGG 651

Db 652 CACAAAGATTAATGAGTCTTTGAGAGAAATCCCAAGCTGAGTTGAAAGAAATCAGAGG 711
QY 652 AAAAGCCAAAGAAAGCCGAAAGCACTCAATATGAAACAAAGAAATTTAGATGTTGAG 711
Db 712 AAAAGCCAAAGAAAGCCGAAAGCACTCAATATGAAACAAAGAAATTTAGATGTTGAG 771
QY 712 ACCGTACTTCTGCTGAGAGTGAATTCAGAAATTCATTCAGATGTTGCCAAGAGCT 771
Db 772 ACCGTACTTCTGCTGAGAGTGAATTCAGAAATTCATTCAGATGTTGCCAAGAGCT 831
QY 772 CTGCTTGAAGAGAGAGAGCCCTTCTGCTTCTGCTGTTATGAGCACTGGCTTTCGAAAC 831
Db 832 CTGCTTGAAGAGAGAGAGCCCTTCTGCTTCTGCTGTTATGAGCACTGGCTTTCGAAAC 891
QY 832 CACATACATTTATTCATCTTACAGTCTGACAGAACTACTGAAATTCAGAGCTGCTGCTG 891
Db 892 CACATACATTTATTCATCTTACAGTCTGACAGAACTACTGAAATTCAGAGCTGCTGCTG 951
QY 892 CAGGAGACCTGTGTTGATGCCATCAAGTGCAGAGAAATCATGAAATTTATGATGAAAG 951
Db 952 CAGGAGACCTGTGTTGATGCCATCAAGTGCAGAGAAATCATGAAATTTATGATGAAAG 1011
QY 952 ATTAAGACCCCAAGCTTACCCCGGTGCTGGAATCTCTGAGGCTTCCACCATGATCGAG 1011
Db 1012 ATTAAGACCCCAAGCTTACCCCGGTGCTGGAATCTCTGAGGCTTCCACCATGATCGAG 1071
QY 1012 AGAAGCAATGTTGTTAGAAAGATTTAGACACCCCTTTCTAATGCTCCAAAGATGCC 1071
Db 1072 AGAAGCAATGTTGTTAGAAAGATTTAGACACCCCTTTCTAATGCTCCAAAGATGCC 1131
QY 1072 CCGGCTCTTCAAGGAGCATATACAGTCCCTTATGATGATGATGTTAATPACCCAGCC 1131
Db 1132 CCGGCTCTTCAAGGAGCATATACAGTCCCTTATGATGATGATGTTAATPACCCAGCC 1191
QY 1132 ACGGTGCCCCGAATTCACAAAGGTTAATTAATCAACAGTACTTCCGAAGATCCAGT 1191
Db 1192 ACGGTGCCCCGAATTCACAAAGGTTAATTAATCAACAGTACTTCCGAAGATCCAGT 1251
QY 1192 TTAACGATCATGTTCCGTTGCAACCGGACTGAACATGATGAGAGACAGAAAGTGAAG 1251
Db 1252 TTAACGATCATGTTCCGTTGCAACCGGACTGAACATGATGAGAGACAGAAAGTGAAG 1311
QY 1252 ACCATCTTCCGACACATGCGGGCTCCAAAGACCTTACTGAGCTTGGACAGGAGAT 1311
Db 1312 GTCATCAGCGTCTCATCCCGAGAGAAAGATGCTGGCTTATGAGAAACAGACGAG 1371
QY 1372 TCCAAAGCGAGGAGTGGTTCCCGTCTGTTACACGAAATGCTGGAAGAAATGAGACA 1431
Db 1432 TCCAAAGCGAGGAGTGGTTCCCGTCTGTTACACGAAATGCTGGAAGAAATGAGACA 1491
QY 1432 GAAAGCATGACCTGTGCCACAGCCCAAGCCCAACAGAGAGAAAGATCAG 1481
Db 1492 GAAAGCATGACCTGTGCCACAGCCCAAGCCCAACAGAGAGAAAGATCAG 1541

RESULT 6

US-10-342-887-1805
; Sequence 1805, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna
; APPLICANT: Van de Vijver, Marc J.
; APPLICANT: Bernards, Rene

TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
 FILE REFERENCE: 9301-188-999
 CURRENT APPLICATION NUMBER: US/10/342,887
 CURRENT FILING DATE: 2003-01-15
 PRIOR APPLICATION NUMBER: 60/298,918
 PRIOR FILING DATE: 2001-06-18
 PRIOR APPLICATION NUMBER: 60/380,710
 PRIOR FILING DATE: 2002-05-14
 PRIOR APPLICATION NUMBER: 10/172,118
 PRIOR FILING DATE: 2002-06-14
 NUMBER OF SEQ ID NOS: 2699
 SEQ ID NO 1805
 LENGTH: 2120
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-342-887-1805

Query Match 58.0%; Score 1216.4; DB 7; Length 2120;
 Best Local Similarity 98.3%; Pred. No. 4.4e-244;
 Matches 1229; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

232 GAGGAGGAGACCGGCTCAGGAGAGACCTACCGGATGTTATGGAACAGTTCAATCT 291
 292 GTGGGGGTAACCTCCCTGTAATTAAGATCGCCAGAAATGTTATGGAACAGTTCAATCT 351
 292 GGGCTGCGAAATTTAATTAACCTTGGGGAATAATTATGAGAAGCTGTAAAGCTATATC 351
 352 GGGCTGCGAAATTTAATTAACCTTGGGGAATAATTATGAGAAGCTGTAAAGCTATATC 411
 352 CTGGCAGAGAAAAGCTTACTAGATGAGTGGCCAAAGATCGGTGAGATTGCCATGGGTCC 411
 412 CTGGCAGAGAAAAGCTTACTAGATGAGTGGCCAAAGATCGGTGAGATTGCCATGGGTCC 471
 412 CCGGTGCAACTGAACCTGGGAGCATGCTCTCATAGAGATTTCACTACCCCAAGAAATC 471
 472 CCGGTGCAACTGAACCTGGGAGCATGCTCTCATAGAGATTTCACTACCCCAAGAAATC 531
 472 AACGAGTCTTGAATGAATAATTTAAATAATTTCCACAAGAGATTTATCCATGAGCTGGAG 531
 532 AACGAGTCTTGAATGAATAATTTAAATAATTTCCACAAGAGATTTATCCATGAGCTGGAG 591
 532 AAGAGATGAATCTTGAATGAATAATTTAAATAATTTCCACAAGAGATTTATCCATGAGCTGGAG 591
 592 AAGAGATGAATCTTGAATGAATAATTTAAATAATTTCCACAAGAGATTTATCCATGAGCTGGAG 651
 592 CACAAGATTAATTAAGTCTTGGAGAAATCCCAAGCTGATGGAAGAGATGAGAGG 651
 652 CACAAGATTAATTAAGTCTTGGAGAAATCCCAAGCTGATGGAAGAGATGAGAGG 711
 652 AAAAGCCAAAGAGCCGAAAGCGACTCAATATGAAACAAAGAAATTTAGATGATGAG 711
 712 AAAAGCCAAAGAGCCGAAAGCGACTCAATATGAAACAAAGAAATTTAGATGATGAG 771
 712 ACGGTACTTCTGTCAGATGAATCCAGAAATTCATTGCAATGTTGCAAGAGGCT 771
 772 ACGGTACTTCTGTCAGATGAATCCAGAAATTCATTGCAATGTTGCAAGAGGCT 831
 772 CTGCTGAAGAGAGAGCGCTTCTGCTTCTGGTTATAGACCTGCTGCTTGGCAAC 831
 832 CTGCTGAAGAGAGAGCGCTTCTGCTTCTGGTTATAGACCTGCTGCTTGGCAAC 891
 832 GACATACATTATATCACTTACAGTCTGAGAACTACTGAATTCAGAGCTGCTGCTG 891
 892 GACATACATTATATCACTTACAGTCTGAGAACTACTGAATTCAGAGCTGCTGCTG 951
 892 GAGGAGACCTGTTGATGTCATCAAGTCCAGAGAAATTCATGATATGATGAGAA 951
 952 GAGGAGACCTGTTGATGTCATCAAGTCCAGAGAAATTCATGATATGATGAGAA 1011
 952 ATTAAGACCCAGCTCTACCCCGTGTCTGAAATCTCAGAGCTTCAACCATGATGAG 1011
 1012 ATTAAGACCCAGCTCTACCCCGTGTCTGAAATCTCAGAGCTTCAACCATGATGAG 1071

1012 AGAGCAATGNGTATGAAAGATTACGACACCTTTCTAATGTCACCAAGATGCC 1071
 1072 AGAGCAATGNGTATGAAAGATTACGACACCTTTCTAATGTCACCAAGATGCC 1131
 1072 CCCCTCTTCCAGCAGACATATACAGTCCCTTGAATGATGTTAATTAACCAAGC 1131
 1132 CCCCTCTTCCAGCAGACATATACAGTCCCTTGAATGATGTTAATTAACCAAGC 1191
 1132 ACGGCTGCCCCGAATTCAAAAGGTAATTAATTAACAGTACTTCCAGATCCAGT 1191
 1192 ACGGCTGCCCCGAATTCAAAAGGTAATTAATTAACAGTACTTCCAGATCCAGT 1251
 1192 TTACAGGATCAGTTGGTGGTTGCAACCGGACTGAACATGATGAAGACCAAGATGAG 1251
 1252 TTACAGGATCAGTTGGTGGTTGCAACCGGACTGAACATGATGAAGACCAAGATGAG 1311
 1252 ACCATCTTCCGCACTGCGGCTCCCAACAGACCTTACTACGCTTTCACAGGAGAT 1311
 1312 ACCATCTTCCGCACTGCGGCTCCCAACAGACCTTACTACGCTTTCACAGGAGAT 1371
 1312 GTCATCAGCTGCTCATCCCGAGAGAGATGCTGCTCTATGAGAACACAGCTG 1371
 1372 GTCATCAGCTGCTCATCCCGAGAGAGATGCTGCTCTATGAGAACACAGCTG 1431
 1372 TCCAAAGCGAGGGTGTGTTCCGCTGCTGTAACAGAGTTGCTGAAGAAATGAGACA 1431
 1432 TCCAAAGCGAGGGTGTGTTCCGCTGCTGTAACAGAGTTGCTGAAGAAATGAGACA 1491
 1432 GAAGCAGTGAACGTCGCCACGACCCCAAGCCCAACAGTGAAGATTCAG 1541

RESULT 7
 US-10-450-763-9761
 Sequence 9761, Application US/10450763
 Publication No. US20050196754A1.
 GENERAL INFORMATION:
 APPLICANT: Hyseq, Inc
 TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
 FILE REFERENCE: 790CIP3/US
 CURRENT APPLICATION NUMBER: US/10/450,763
 CURRENT FILING DATE: 2003-06-11
 PRIOR APPLICATION NUMBER: PCT/US01/08631
 PRIOR FILING DATE: 2001-03-30
 PRIOR APPLICATION NUMBER: 09/540,217
 PRIOR FILING DATE: 2000-03-31
 PRIOR APPLICATION NUMBER: 09/649,167
 PRIOR FILING DATE: 2000-08-23
 NUMBER OF SEQ ID NOS: 60736
 SOFTWARE: Custom
 SEQ ID NO 9761
 LENGTH: 1729
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: SIMILAR
 LOCATION: (319)..(939)
 OTHER INFORMATION: 67% homologous to Homo sapiens insulin receptor tyrosine
 OTHER INFORMATION: Kinase substrate, accession number AF119666, Smith-Waterman Score
 US-10-450-763-9761

Query Match 51.1%; Score 1071; DB 9; Length 1729;
 Best Local Similarity 95.1%; Pred. No. 1.1e-213;
 Matches 1205; Conservative 0; Mismatches 45; Indels 17; Gaps 9;

232 GAGGAGTGAACCGGCTCAGGAGAGACCTACCGGAAATGTTATGGAACAGTTCAATCT 291
 277 GTGGGGGTAACCTCCCTGTAATTAAGATCGCCAGAAATGTTATGGAACAGTTCAATCT 336
 292 GGGCTGCGAAATTTAATTAACCTTGGGGAATAATTATGAGAAGCTGTAAAGCTATATC 351

```

Db 337 GGGGTGGAATTTTAACTGAGGAAAAATTATGAGAAAGCTGTAAACGCTATGATC 396
Qy 352 CTGGGAGAAAAAGCTTCTCATGATGAGTGGCCAAAGATCGGTGATGTCACATGGGTCC 411
Db 397 CTGGGAGAAAAAGCTTCTCATGATGAGTGGCCAAAGATCGGTGATGTCACATGGGTCC 456
Qy 412 CCGGTGCAAC-TGAAGTGGGACATGCTCATAGAGATTTCAAGTACCCACAGAAAC- 469
Db 457 CCGGTGCAAC-TGAAGTGGGACATGCTCATAGAGATTTCAAGTACCCACAGAAAC- 516
Qy 470 TCAACGAGAGCTT--GATGAAAAATTTTAAAAATTCACAAAGAGATTTCCATGAGC 526
Db 517 TCAACGAGAGCTTGTGATGAAAAATTTTAAAAATTCACAAAGAGATTTCCATGAGC 576
Qy 527 TGGAGAGAGATGAACTT-GAGGTGAAATATATGAAAGCACTTAAAAAGATCCAA 585
Db 577 TGGAGAGAGATGAACTTGGAGGTGAAATATGAAAGCACTTAAAAAGATCCAA 636
Qy 586 ACAGAACACAGAAATTAATTAAGTCTTTGGAGAAATCCAAAGCTGAGTTGAGAAAGATC 645
Db 637 ACAGAACACAGAAATTAATTAAGTCTTTGGAGAAATCCAAAGCTGAGTTGAGAAAGATC 696
Qy 646 AGAAGAAAAAGCCAGAGAGCCGAAAGCACTCAAAATGAAACAAAGAAATGAGAT 705
Db 697 AGAAGAAAAAGCCAGAGAGCCGAAAGCACTCAAAATGAAACAAAGAAATGAGAT 756
Qy 706 GTGAGAACCTTACTTCTGCTGAGAGTGAATCC-AGAAATTCATGAGATGGTTGCA 764
Db 757 GTGAGAACCTTACTTCTGCTGAGAGTGAATCCAGAAATTCATGAGATGGTTGCA 816
Qy 765 AGAGGCTCTGCTTGAAGAGAGAGCGC-----CTTCTGCTTCTGCTTGAATGACACTG 818
Db 817 AGAGGCTCTGCTTGAAGAGAGAGCGCGCTTCTGCTTCTGCTTGAATGACACTG 876
Qy 819 TGGCTTTGCAAA--CCACATACATATTTATCATCTTACAGTCTGCAAGTCTGTAAT-C 875
Db 877 TGGCTTTGCAAAAGCCACATACATATTTATCATCTTACAGTCTGCAAGTCTGTAATCC 936
Qy 876 CAAGCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 934
Db 937 CAAGCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 996
Qy 935 TGAATATGATCGAAGAAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 994
Db 997 TGAATATGATCGAAGAAATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1056
Qy 995 CTTCACCATGATCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1054
Db 1057 CTTCACCATGATCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1116
Qy 1055 GCTCAGCAAGAGTGGCCCGCTCTCTTCAAGGAGAGAGATATACAGTCCCTTGAATGATA 1114
Db 1117 GCTCAGCAAGAGTGGCCCGCTCTCTTCAAGGAGAGAGATATACAGTCCCTTGAATGATA 1176
Qy 1115 TGTTTAATTAACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1174
Db 1177 TGTTTAATTAACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1236
Qy 1175 CTTCGAGAGATCCAGTCTTACAGAGATGATTTGGTTGCAACGGGAGAGAGAGAGAGAG 1234
Db 1237 CTTCGAGAGATCCAGTCTTACAGAGATGATTTGGTTGCAACGGGAGAGAGAGAGAGAG 1296
Qy 1235 AGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1294
Db 1297 AGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1356
Qy 1295 GCTTTGCAACAGGAGAGATGATCATACGCTGCTCATCCCGAGAGAGAGAGAGAGAGAG 1354
Db 1357 GCTTTGCAACAGGAGAGATGATCATACGCTGCTCATCCCGAGAGAGAGAGAGAGAGAG 1416
Qy 1355 ATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1414
Db 1417 ATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1476

```

```

Qy 1415 TGGAGAGAAATGAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1474
Db 1477 TGGAGAGAAATGAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1536
Qy 1475 GCATCAG 1481
Db 1537 GCTTCAG 1543

RESULT 8
US-10-450-763-9762
; Sequence 9762, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 9762
; LENGTH: 1993
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIMILAR
; LOCATION: (76)..(501)
; OTHER INFORMATION: 79% homologous to Homo sapiens insulin receptor tyrosine
; OTHER INFORMATION: kinase substrate,accession number AF119666,Smith-Waterman Score=
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(1993)
; OTHER INFORMATION: n = a,t,c or g
US-10-450-763-9762

Query Match 48.7%; Score 1021.2; DB 9; Length 1993;
Best Local Similarity 89.3%; Pred. No. 3e-203;
Matches 1211; Conservative 0; Mismatches 38; Indels 107; Gaps 6;

Qy 680 AATATGAACCAAGAAATGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 739
Db 158 AACTGAGTGAATATATGAACTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 217
Qy 740 AGAATTCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 799
Db 218 AGAATTCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 277
Qy 800 TTCTGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 859
Db 278 TTCTGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 337
Qy 860 CAGAACTATGAAATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 919
Db 338 CAGAACTATGAAATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 397
Qy 920 TGCAGAGAAATATGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 979
Db 398 TGCAGAGAAATATGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 457
Qy 980 CTGGAATCTCTGAGCTTCAACCATGATCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1039
Db 458 CTGGAATCTCTGAGCTTCAACCATGATCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 501
Qy 1040 AACCCCTTTCTAATATGTCACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1099

```



```

GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA106
CURRENT APPLICATION NUMBER: US/09/925,301
PRIOR FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05882
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1694
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 269
LENGTH: 1242
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (4)
OTHER INFORMATION: n equals a,t,g, or c
LOCATION: (31)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (46)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (460)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc_feature
LOCATION: (1233)
OTHER INFORMATION: n equals a,t,g, or c
US-09-925-301-269

Query Match      27.5%; Score 576.4; DB 3; Length 1242;
Best Local Similarity 95.3%; Pred. No. 2.8e-110;
Matches 592; Conservative 1; Mismatches 28; Indels 0; Gaps 0;

QY 1410 GTTGTGGAAGAAATGAGACGAGACGATGACCGTCCCAAGCCCAAGCCCAAGCAGT 1469
DB 239 GGGGTGAGACATTAATCAACAGTGTCTGTCTTTGGGTTTGAAGCCCAAGCAGT 298

QY 1470 GAGAACATCAGACCGGTGAATCTGTGAGATAGACAGTGTGATCCCCCAAGCCGA 1529
DB 299 GAGAACATCAGACCGGTGAATCTGTGAGATAGACAGTGTGATCCCCCAAGCCGA 358

QY 1530 CTACTTGAATGCTTGTCCATGAGGAGCACTGCGCAGAGAGACAGATTGCGCCAGAG 1589
DB 359 CTACTTGAATGCTTGTCCATGAGGAGCACTGCGCAGAGAGACAGATTGCGCCAGAG 418

QY 1590 GACATCCACTTTAAGGCCCCCAAGCTTCAAGCCCCGAGACCGCGGCTCTTAACGATGCGA 1649
DB 419 GACATCCACTTTAAGGCCCCCAAGCTTCAAGCCCCGAGACCGCGGCTCTTAACGATGCGA 478

QY 1650 CGGGAATGCAAGCGGCTTTCTCAGCGGAGAAACCCCTTGCCACTGTGAACCTCCG 1709
DB 479 CGGGAATGCAAGCGGCTTTCTCAGCGGAGAAACCCCTTGCCACTGTGAACCTCCG 538

QY 1710 CCGCACTGAGCAATGATGCTCGGCAACCATCATTTGATGAGAGAGACAGCCAGACT 1769
DB 539 CCGCACTGAGCAATGATGCTCGGCAACCATCATTTGATGAGAGAGACAGCCAGACT 598

QY 1770 CTCCCGGAGCTCTCCGCTTCTCCCTTCCGGAATGATGGGGGAGCCCTGTGCGCAGTGC 1829
DB 599 CTCCCGGAGCTCTCCGCTTCTCCCTTCCGGAATGATGGGGGAGCCCTGTGCGCAGTGC 658

QY 1830 TGAAGGTGCGGGAAGCTTCACTGAGAGAGGCTTAACCTAATGTCGCTTGAAGCAATC 1889
DB 659 TGAAGGTGCGGGAAGCTTCACTGAGAGAGGCTTAACCTAATGTCGCTTGAAGCAATC 718

QY 1890 ATGCTTCTGTTTCAAGTATGTTGGGTTGACAACTTTCTGCTTTAAGATTAATGATTA 1949
DB 719 ATGCTTCTGTTTCAAGTATGTTGGGTTGACAACTTTCTGCTTTAAGATTAATGATTA 778

```

```

QY 1950 TAGTCAATGACGAGCTCAGCCATTTAAATATTTTCTTCTATTTGTTCAAGAAACAG 2009
DB 779 TAGTCAATGACGAGCTCAGCCATTTAAATATTTTCTTCTATTTGTTCAAGAAACAG 838

QY 2010 TAAACTTGTTTCAATCTTTA 2030
DB 839 TAAACTTGTTTCAATCTTTA 859

RESULT 11
US-10-066-543-990
Sequence 990, Application US/10066543
Publication No. US20030087818A1
GENERAL INFORMATION:
APPLICANT: Jiang, Yugu
APPLICANT: Pyle, Ruth A.
APPLICANT: Xu, Jianshun
APPLICANT: Indrias, Carol Yoseph
APPLICANT: Lodes, Michael J.
APPLICANT: Secrist, Heather
APPLICANT: Carter, Darrick
APPLICANT: Ranger, Gary R.
APPLICANT: Smith, Carole L.
APPLICANT: Durham, Margareta
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.563
CURRENT APPLICATION NUMBER: US/10/066,543
PRIOR FILING DATE: 2002-01-31
NUMBER OF SEQ ID NOS: 3417
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 990
LENGTH: 641
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5, 362, 424, 427, 444, 449, 565, 567, 584, 602, 609, 611,
LOCATION: 624, 629
OTHER INFORMATION: n = A,T,C or G
US-10-066-543-990

Query Match      27.5%; Score 576.2; DB 5; Length 641;
Best Local Similarity 97.3%; Pred. No. 2.3e-110;
Matches 578; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 205 GCGGCGGAGCCATGTCCTCGGGGCGCCGAGAGGTGAACCGGCTCAGAGACACTCA 264
DB 48 GCGGCGGAGCCATGTCCTCGGGGCGCCGAGAGGTGAACCGGCTCAGAGACACTCA 107

QY 265 CGGAATGTTATGGAACAGTTCAATCTGGGCTGCGAAATTTTAATAACTGGGAAATAT 324
DB 108 CGGAATGTTATGGAACAGTTCAATCTGGGCTGCGAAATTTTAATAACTGGGAAATAT 167

QY 325 TATGAGAAAGCTTAAAGCTATGATCTGCGAGAAAGCCCTAATCAATGATGAGTGGCC 384
DB 168 TATGAGAAAGCTTAAAGCTATGATCTGCGAGAAAGCCCTAATCAATGATGAGTGGCC 227

QY 385 AAGATGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 444
DB 228 AAGATGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 287

QY 445 GAGATTTCAAGTACCCCAAGAACTCAAGAGAGTCTTGATGAAATTTTAAATAATTC 504
DB 288 GAGATTTCAAGTACCCCAAGAACTCAAGAGAGTCTTGATGAAATTTTAAATAATTC 347

QY 505 CACAAAGAGTTATCAATGAGCTGAGAGAGATGAACTTGAACGTAATATATGAAAC 564
DB 348 CACAAAGAGTTATCAATGAGCTGAGAGAGATGAACTTGAACGTAATATATGAAAC 407

QY 565 GCAACTTAAAGATACCAAGAGAAACAAGAAATTAATAGTCTTTGAGAGAAATCC 624

```

Db 408 GCAACTCTTAAAGATCCNAACAGAAACAAGATTAATTAGCTTTGGAAATCC 467
Qy 625 CAAGCTGAGTTGAAGAAATCAGAGAAAGCCAGAAAGCCGAAACGACTCAATAT 684
Db 468 CAAGCTGAGTTGAAGAAATCAGAGAAAGCCAGAAAGCCGAAACGACTCAATAT 527
Qy 685 GAAACAAGAAATGAGTATGTGAGAACCGTACTTCTGTCAGAGTGAATCCAGAA 744
Db 528 GAAACAAGAAATGAGTATGTGAGAACCGTACTTCTGTCAGAGTGAATCCAGAA 587
Qy 745 TTCATTGACAGATGTGCAAGAGGCTCTGCTTGAAGAGAGGCGCTTCTGC 798
Db 588 TTCATTGACAGATGTGCAAGAGGCTCTGCTTGAAGAGAGGCGCTTCTGC 641

RESULT 12

US-09-878-134-252
Sequence 252, Application US/09878134
Publication No. US20020086303A1
GENERAL INFORMATION:
APPLICANT: Meagher, Madeleine Joy
APPLICANT: King, Gordon E.
APPLICANT: Xu, Jianshun
APPLICANT: Secret, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
FILE REFERENCE: 210121.532
CURRENT APPLICATION NUMBER: US/09/878,134
NUMBER OF SEQ ID NOS: 377
SOFTWARE: Corixa Invention Disclosure Database
SEQ ID NO 252
LENGTH: 559
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (1) ... (559)
OTHER INFORMATION: n = A,T,C or G
US-09-878-134-252

Query Match 26.5%; Score 556; DB 3; Length 559;
Best Local Similarity 99.5%; Pred. No. 3.7e-106;
Matches 556; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 863 AACTCTGATTCGAAGCTGCTCGGTGCAAGAGACCTGTGTGATGCCATCAAGTGC 922
Db 1 AACTCTGATTCGAAGCTGCTCGGTGCAAGAGACCTGTGTGATGCCATCAAGTGC 60
Qy 923 CAGAGAAATCATGATATGATGAGAAATTAAGACCCAGCTCTACCCCGTGTCTG 982
Db 61 CAGAGAAATCATGATATGATGAGAAATTAAGACCCAGCTCTACCCCGTGTCTG 120
Qy 983 GAAGCTCTGAGGCTTCAAGCTGATGAGAGAAAGCAATGTGTGAGAAAGATTAGACA 1042
Db 121 GAAGCTCTGAGGCTTCAAGCTGATGAGAGAAAGCAATGTGTGAGAAAGATTAGACA 180
Qy 1043 CCCTTTCTAATGCTCAACCAAGATGCCCCCGCTCTTCAAGGACAGATATACAGTGC 1102
Db 181 CCCTTTCTAATGCTCAACCAAGATGCCCCCGCTCTTCAAGGACAGATATACAGTGC 240
Qy 1103 CCTTGATGATATGTTTAAATACCAAGCAAGGCTGCCCCGAATTCAAAAGGTTAATA 1162
Db 241 CCTTGATGATATGTTTAAATACCAAGCAAGGCTGCCCCGAATTCAAAAGGTTAATA 300
Qy 1163 ATTCAACAGGTATCTTCCGAAGTCCAGTTTACAGGATCAAGTTTCGATTGCAACGGAC 1222
Db 301 ATTCAACAGGTATCTTCCGAAGTCCAGTTTACAGGATCAAGTTTCGATTGCAACGGAC 360
Qy 1223 TGAACATATGAGAGAGAGAGAGAGAGATCTTCCCGGACACTGGGGCTCCACA 1282
Db 361 TGAACATATGAGAGAGAGAGAGAGAGATCTTCCCGGACACTGGGGCTCCACA 420

Qy 1283 AGACCTTACTCAGCTTTGACAGAGAGATGTATCAAGCTGCTCATCCCGAGAGAGAG 1342
Db 421 AGACCTTACTCAGCTTTGACAGAGAGATGTATCAAGCTGCTCATCCCGAGAGAGAG 480
Qy 1343 ATGCTGAGCTTATGAGAGACAGAGCTGTCCAGAGGCGAGGGGTTGTTCCGTCGT 1402
Db 481 ATGCTGAGCTTATGAGAGACAGAGCTGTCCAGAGGCGAGGGGTTGTTCCGTCGT 540
Qy 1403 ACAAGAGTTGCTGAGAGA 1421
Db 541 ACAAGAGTTGCTGAGAGA 559

RESULT 13

US-10-066-543-321
Sequence 321, Application US/10066543
Publication No. US20030087818A1
GENERAL INFORMATION:
APPLICANT: Jiang, Yugu
APPLICANT: Pyle, Ruth A.
APPLICANT: Xu, Jianshun
APPLICANT: Indirias, Carol Yoseph
APPLICANT: Lodes, Michael J.
APPLICANT: Secret, Heather
APPLICANT: Carter, Darrick
APPLICANT: Fanger, Gary R.
APPLICANT: Smith, Carole L.
APPLICANT: Durham, Margalita
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.563
CURRENT APPLICATION NUMBER: US/10/066,543
NUMBER OF SEQ ID NOS: 3417
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 321
LENGTH: 539
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: 20, 23, 51, 61, 71
OTHER INFORMATION: n = A,T,C or G
US-10-066-543-321

Query Match 24.8%; Score 520.8; DB 5; Length 539;
Best Local Similarity 98.7%; Pred. No. 8.4e-99;
Matches 522; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 205 GGGGCGGAGCCATGTCCTCGGGGCGCCGAGAGAGTGAACCGGCTACGAGAGACCTAC 264
Db 11 GGGGCGGAGCCATGTCCTCGGGGCGCCGAGAGAGTGAACCGGCTACGAGAGACCTAC 70
Qy 265 CGGAATGTTATGAGAACAGTTCATCTGCGGCTGCGAAATTTAATAACCTGGGAAAAAT 324
Db 71 NGGAATGTTATGAGAACAGTTCATCTGCGGCTGCGAAATTTAATAACCTGGGAAAAAT 130
Qy 325 TATGAGAAAGCTGTAAAGCTATGATCTGTGAGAGAAAGCCTTACTAGATGAGTGGC 384
Db 131 TATGAGAAAGCTGTAAAGCTATGATCTGTGAGAGAAAGCCTTACTAGATGAGTGGC 190
Qy 385 AAGATCGGTGAGATTGCACTGGGCTCCCGGTGCACTGGAACCTGGGACATGCTCTATA 444
Db 191 AAGATCGGTGAGATTGCACTGGGCTCCCGGTGCACTGGAACCTGGGACATGCTCTATA 250
Qy 445 GAGATTTCAAGTACCAAGAACTCAAGAGAGCTTTGATGAGAAATTTTAAAAAATTC 504
Db 251 GAGATTTCAAGTACCAAGAACTCAAGAGAGCTTTGATGAGAAATTTTAAAAAATTC 310
Qy 505 CACAAAGATTTATCCATGAGCTGAGAGAAAGATAGAACTTGAAGTAAATATATGAC 564

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:39:54 ; Search time 854 Seconds
(without alignments)
16357.372 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096

Sequence: 1 cctccctgcctcctcgaagaa.....aaaaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: Genesegq1980s:*
2: Genesegq1990s:*
3: Genesegq2000s:*
4: Genesegq2001s:*
5: Genesegq2001bs:*
6: Genesegq2002as:*
7: Genesegq2002bs:*
8: Genesegq2003as:*
9: Genesegq2003bs:*
10: Genesegq2003cs:*
11: Genesegq2003ds:*
12: Genesegq2004as:*
13: Genesegq2004bs:*
14: Genesegq2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2028.4	96.8	3617	13 ACN38684	ACN38684 Tumour-as
2	1821.4	86.9	2317	4 AAF32674	AAF32674 Human CDN
3	1514.6	72.3	2471	12 ADM86946	ADM86946 Human PRO
4	1448.4	69.1	1510	12 ADM87430	ADM87430 Human EST
5	1216.4	58.0	2120	13 ADP25944	ADP25944 Breast ca
6	1206.4	57.6	1221	14 ADVA4309	ADVA4309 Human psy
7	1071	51.1	1729	5 AAS73957	AAS73957 DNA encod
8	1021.2	48.7	1993	5 AAS73958	AAS73958 DNA encod
9	594	28.3	625	11 ADT94962	ADT94962 Colon can
10	594	28.3	625	11 ADX41444	ADX41444 Human CDN
11	576.4	27.5	1242	3 AAC77875	AAC77875 Human can
12	576.2	27.5	641	11 ADT95471	ADT95471 Colon can
13	576.2	27.5	641	11 ADX41953	ADX41953 Human CDN
14	556	26.5	559	6 ABR29726	ABR29726 Colon ade
15	520.8	24.8	539	11 ADT94802	ADT94802 Colon can
16	520.8	24.8	539	11 ADX41284	ADX41284 Human CDN
17	488	23.3	511	6 ABR70212	ABR70212 Human lun
18	470.4	22.4	512	6 ABR70219	ABR70219 Human lun
19	355	16.9	3128	12 ADO64787	ADO64787 Novel hum

20	329	15.7	449	5 AAS73955	AAS73955 DNA encod
21	274.8	13.1	439	5 AAS73956	AAS73956 DNA encod
22	259.6	12.4	2080	2 AAV72220	AAV72220 Human IRS
23	259.6	12.4	2080	10 ADD35681	ADD35681 Human IRS
24	259.6	12.4	2080	10 ADE86152	ADE86152 Human IRS
25	258	12.3	2129	13 ADP66181	ADP66181 Human pro
26	258	12.3	2129	14 ADX07028	ADX07028 Cyclin-de
27	258	12.3	2137	2 AAS28999	AAS28999 Human pro
28	258	12.3	2677	14 ADX07032	ADX07032 Cyclin-de
29	258	12.3	3168	14 ADX07030	ADX07030 Cyclin-de
30	258	12.3	3255	11 ADL22621	ADL22621 Human dis
31	258	12.3	3458	8 ABX34756	ABX34756 Human mdd
32	255.4	12.2	295	6 ADD35683	ADD35683 Human IRS
33	241.6	11.5	2328	10 ADE86154	ADE86154 Human IRS
34	241.6	11.5	2328	10 ADE86154	ADE86154 Human IRS
35	240.2	11.5	45698	12 ADU12490	ADU12490 DNA Eragm
36	227.4	10.8	1415	14 AD277086	AD277086 Human IRS
37	219.6	10.5	2133	4 AAH18159	AAH18159 Human CDN
38	216.4	10.3	16181	4 ABR42539	ABR42539 Genomic s
39	216.4	10.3	16181	4 AAL04268	AAL04268 Human rep
40	216.4	10.3	16181	9 ADB60695	ADB60695 Connectiv
41	209.6	10.0	476	6 ABL67044	ABL67044 Thyroid c
42	209.6	10.0	476	6 ABL68013	ABL68013 Ovary can
43	209.6	10.0	476	6 ABL67457	ABL67457 Thyroid c
44	203.8	9.7	363	10 ADF66284	ADF66284 Human mtc
45	203.8	9.7	363	13 ACF87869	ACF87869 Human STR

ALIGNMENTS

RESULT 1	ACN38684	standard; CDNA; 3617 BP.
ID	ACN38684	
AC	ACN38684	
XX	18-NOV-2004	(first entry)
DE	Tumour-associated antigenic target (TAT)	CDNA DNA34988, SEQ ID NO:2351.
XX	Tumour-associated antigenic target; TAT; human; overexpression; cancer;	
XX	Tumour; diagnosis; cell proliferative disorder; breast cancer;	
KW	colorectal cancer; lung cancer; ovarian cancer; liver cancer;	
KW	central nervous system cancer; bladder cancer; pancreatic cancer;	
KW	cervical cancer; melanoma; leukaemia; hybridisation probe;	
KW	chromosome identification; chromosome mapping; gene mapping;	
KW	gene therapy; cytostatic; gene; ss.	
OS	Homo sapiens.	
XX	WO2004030615-A2.	
XX	15-APR-2004.	
PD	29-SEP-2003; 2003WO-US028547.	
PF	02-OCT-2002; 2002US-0414971P.	
PR	(GETH) GENENTECH INC.	
PA	Wu TD, Zhang Z, Zhou Y;	
XX	Wu TD, Zhang Z, Zhou Y;	
PI	WPI; 2004-347921/32.	
DR	New tumor-associated antigenic target polypeptides and nucleic acids,	
XX	useful in preparing a medicament for treating or detecting a	
PT	proliferative disorder, e.g. breast, lung, colorectal, ovarian or	
PT	prostate cancer or tumor.	
PS	Claim 1; SEQ ID NO 2351; 7273pp; English.	
XX	The invention relates to human tumour-associated antigenic target (TAT)	
CC		

polypeptides, and their related nucleic acids. The TAT polypeptides are overexpressed in cancer tissues compared to normal tissues, and may thus serve as effective targets for the diagnosis and treatment of cancer in mammals. The invention also relates to nucleic acid and polypeptide sequences at least 80% identical to the TAT nucleic acids and polypeptides; expression vectors and host cells comprising a TAT nucleic acid; an antibody specific for a TAT polypeptide; a peptide or organic molecule which binds to a TAT polypeptide; fusion proteins comprising a TAT polypeptide; and methods and compositions for the treatment or diagnosis of cancer in mammals. TAT polypeptides, nucleic acids, antibodies, antagonists, binding molecules and compositions are useful for diagnosing or treating a cell proliferative disorder associated with increased TAT expression, particularly cancers such as breast cancer, colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder cancer, pancreatic cancer, cervical cancer, cancers of the central nervous system, melanoma and leukaemia. TAT nucleic acids may further be used as hybridisation probes, in chromosome and gene mapping, in chromosome identification and in gene therapy. The present sequence represents a TAT nucleic acid of the invention

Sequence 3617 BP; 941 A; 941 C; 924 G; 811 T; 0 U; 0 Other;

Query Match 96.8%; Score 2028.4; DB 13; Length 3617;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2029; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
QY 1 CTCCTGCTCCCTCGAAGAGCGGAGGCGCTGCGCAATTTTTCATTTTGGCAG 60
DB 1 CTCCTGCTCCCTCGAAGAGCGGAGGCGCTGCGCAATTTTTCATTTTGGCAG 60
QY 61 CGAGAGCGGCGGCGGCACTCTTGCGGCGGAGCTGCGGCGGCGGCGGCGGCGG 120
DB 61 CGAGAGCGGCGGCGGCACTCTTGCGGCGGAGCTGCGGCGGCGGCGGCGGCGG 120
QY 121 CCCTTAGTGGCGCCCGGCGCTCTGCGGAGTCCGCGCGGCGGCGGCGGCGGCGG 180
DB 121 CCCTTAGTGGCGCCCGGCGCTCTGCGGAGTCCGCGCGGCGGCGGCGGCGGCGG 180
QY 181 CGTCTCCGCGGCTTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
DB 181 CGTCTCCGCGGCTTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
QY 241 AACCGGCTCA CGAGAGCACTTACCGGAATGTTATGAAACAGTTCACTCTGCGG 300
DB 241 AACCGGCTCA CGAGAGCACTTACCGGAATGTTATGAAACAGTTCACTCTGCGG 300
QY 301 AATTTATTAACCTGGGGAATAATTATGAAAGCTGTAAACCTTATGATCTGGGCA 360
DB 301 AATTTATTAACCTGGGGAATAATTATGAAAGCTGTAAACCTTATGATCTGGGCA 360
QY 361 AAAGCTTACTAGTAGAGTGGCGAAGATCGGTGAGTTGCCACTGGGTCCTCCG 420
DB 361 AAAGCTTACTAGTAGAGTGGCGAAGATCGGTGAGTTGCCACTGGGTCCTCCG 420
QY 421 ACTGAACCTGGACATGCTCATAGAGATTTCAAGTACCAAGAACTCAACGAGAG 480
DB 421 ACTGAACCTGGACATGCTCATAGAGATTTCAAGTACCAAGAACTCAACGAGAG 480
QY 481 CTGTGATGAATAATTTTAAATAATTTCAACAAGAGATTTCCATGAGCTGGGA 540
DB 481 CTGTGATGAATAATTTTAAATAATTTCAACAAGAGATTTCCATGAGCTGGGA 540
QY 541 GAACTTGACGTGAATATATGAAACGCACTTAAAGATACCAACAGAACAGCAAG 600
DB 541 GAACTTGACGTGAATATATGAAACGCACTTAAAGATACCAACAGAACAGCAAG 600
QY 601 AAATTGAGCTCTTTGGAAGAAATCCAAAGCTGAGTTGAAGAGATCAGAAAGAA 660
DB 601 AAATTGAGCTCTTTGGAAGAAATCCAAAGCTGAGTTGAAGAGATCAGAAAGAA 660
QY 661 GGAAGCGGAAACGCACTCAATATGAAACCAAGAAATGAGTATGAGAGACCGT 720
DB 661 GGAAGCGGAAACGCACTCAATATGAAACCAAGAAATGAGTATGAGAGACCGT 720
```

```
QY 721 TCTGTCAGAGTGAATTCAGAAATTCATGAGATGTTGCAAGAGGCTGCTTGAA 780
DB 721 TCTGTCAGAGTGAATTCAGAAATTCATGAGATGTTGCAAGAGGCTGCTTGAA 780
QY 781 GGAAGAGCGCTTCTGCTTTCTGTTGATTAAGACATGTGCTTTGCAACCATAT 840
DB 781 GGAAGAGCGCTTCTGCTTTCTGTTGATTAAGACATGTGCTTTGCAACCATAT 840
QY 841 TATTTACATTCACGTCTGCAAGATCTACATGATTCAGAGTCTGCTGGAGAG 900
DB 841 TATTTACATTCACGTCTGCAAGATCTACATGATTCAGAGTCTGCTGGAGAG 900
QY 901 TGTGTTGATGCAATCAAGTGGCAGAGAAATCATGATATGATGCAAGAAATTA 960
DB 901 TGTGTTGATGCAATCAAGTGGCAGAGAAATCATGATATGATGCAAGAAATTA 960
QY 961 CCAGCTTACCCCGGTGTCTGAACTCTCAGGCTTCAACCATGATTCAGAGAG 1020
DB 961 CCAGCTTACCCCGGTGTCTGAACTCTCAGGCTTCAACCATGATTCAGAGAG 1020
QY 1021 GTGCTTGAAGAAATTAAGACACCTTTCTAATGCTCAACAAAGTGCCTCCCT 1080
DB 1021 GTGCTTGAAGAAATTAAGACACCTTTCTAATGCTCAACAAAGTGCCTCCCT 1080
QY 1081 TCAGGAGAGCATATACAGTCCCTGATGATGATTTAATTAACCAAGCGCTGCC 1140
DB 1081 TCAGGAGAGCATATACAGTCCCTGATGATGATTTAATTAACCAAGCGCTGCC 1140
QY 1141 CCGAATTCACAAAGGATTAATTAATTAACAGGTACTTCCGAAGATCCAGTTAC 1200
DB 1141 CCGAATTCACAAAGGATTAATTAATTAACAGGTACTTCCGAAGATCCAGTTAC 1200
QY 1201 TCAAGTTTGGTTCGCAACGGGACATGAAATGAAAGAAACAGAAATGAAAGCA 1260
DB 1201 TCAAGTTTGGTTCGCAACGGGACATGAAATGAAAGAAACAGAAATGAAAGCA 1260
QY 1261 CCGCACACTGCGGAGCTCAACAAGACCTTACTAGCTTTCACAGGAGATGTCAC 1320
DB 1261 CCGCACACTGCGGAGCTCAACAAGACCTTACTAGCTTTCACAGGAGATGTCAC 1320
QY 1321 CTGCTCATCCCGAGAGAAAGATGCTGCTTATGAGAAACGACGTTTCAAGGCG 1380
DB 1321 CTGCTCATCCCGAGAGAAAGATGCTGCTTATGAGAAACGACGTTTCAAGGCG 1380
QY 1381 AGGGTGGTTCCTCGTCCGTAACAAGAGTGTGGAAGAAATGAGACAGAGAG 1440
DB 1381 AGGGTGGTTCCTCGTCCGTAACAAGAGTGTGGAAGAAATGAGACAGAGAG 1440
QY 1441 ACCGTGCCACGACCCCAAGCCCAACACAGTGAAGATCAGCACCGTGAATCT 1500
DB 1441 ACCGTGCCACGACCCCAAGCCCAACACAGTGAAGATCAGCACCGTGAATCT 1500
QY 1501 AATGAGATGTTGTATCTCCCAACCGCACTTCTGGAATGCTTTCATGAGGAG 1560
DB 1501 AATGAGATGTTGTATCTCCCAACCGCACTTCTGGAATGCTTTCATGAGGAG 1560
QY 1561 GCGGACAGAGAGAGATTCGCGCAGAGAGATCACTTTAAGGCCCAAGGCTCAAG 1620
DB 1561 GCGGACAGAGAGAGATTCGCGCAGAGAGATCACTTTAAGGCCCAAGGCTCAAG 1620
QY 1621 CCGGAGACCGGCGCTCTTACAGATGCAACGGAATGCAAGAGCGCTTTTCTCAG 1680
DB 1621 CCGGAGACCGGCGCTCTTACAGATGCAACGGAATGCAAGAGCGCTTTTCTCAG 1680
QY 1681 GAAAGCCCTTTTGGCACTGTGAACTCCGCGGAGCTGTGACGAATGATGCTG 1740
DB 1681 GAAAGCCCTTTTGGCACTGTGAACTCCGCGGAGCTGTGACGAATGATGCTG 1740
QY 1741 ATCATTCATGAGAGAGACGCAAGACTCTCCGCGCTCTCCGCTTCTCCCTTGG 1800
DB 1741 ATCATTCATGAGAGAGACGCAAGACTCTCCGCGCTCTCCGCTTCTCCCTTGG 1800
```

QY 1801 ATGATGGGGCGCATCTCTGTGCGACGCTGAGCGGTGGGAAGCTTCAAGTGGAGAGCGCT 1860
 DB 1801 ATGATGGGGCGCATCTCTGTGCGACGCTGAGCGGTGGGAAGCTTCAAGTGGAGAGCGCT 1860
 QY 1861 AACTCTAATGTCGCTGCTTAAAGCAATTCATGCTTCTCTGTTTCAACGTAAGTGGGTTGAC 1920
 DB 1861 AACTCTAATGTCGCTGCTTAAAGCAATTCATGCTTCTCTGTTTCAACGTAAGTGGGTTGAC 1920
 QY 1921 AAGTTTCTGCTTAAAGTAAATGATTAATGCTTAATGACACGCTCAAGCATTAAAT 1980
 DB 1921 AAGTTTCTGCTTAAAGTAAATGATTAATGCTTAATGACACGCTCAAGCATTAAAT 1980
 QY 1981 ATTTCTCTCTAATCTGTCAGAAAGAGTAACCTGTTCAATCTTAA 2030
 DB 1981 ATTTCTCTCTAATCTGTCAGAAAGAGTAACCTGTTCAATCTTAA 2030
 RESULT 2
 AAF32674
 ID AAF32674 standard; cDNA; 2317 BP.
 AC AAF32674;
 DT 22-MAR-2001 (first entry)
 XX Human cDNA encoding intracellular signalling molecule INTRA37.
 DE Human cDNA encoding intracellular signalling molecule INTRA37.
 KW Human; intracellular signalling molecule; INTRA; immunosuppressive;
 KW cytosolic; neuroprotective; nootropic; antiarteriosclerotic; cancer;
 KW antiinflammatory; anti-HIV; neuroleptic; antibacterial; antifungal;
 KW antiviral; antiparasitic; antihelminthic; antiparkinsonian; AIDS;
 KW cell proliferative disorder; arteriosclerosis autoimmune; epilepsy;
 KW inflammatory disorder; Addison's disease; gastrointestinal disorder;
 KW neurological disorder; Parkinson's disease; Creutzfeldt-Jakob disease;
 KW mental disorder; schizophrenia; anxiety; ss.
 OS Homo sapiens.
 XX MO200077040-A2.
 PN 21-DEC-2000.
 PD 16-JUN-2000; 2000MO-US016636.
 PF 16-JUN-1999; 99US-0139566P.
 PR 17-AUG-1999; 99US-0149640P.
 PR 09-NOV-1999; 99US-0164417P.
 XX (INCY-) INCYTE GENOMICS INC.
 PA Yue H, Tang YT, Hillman JL, Lal P, Bandman O, Baughn MR;
 PI Azimzai Y, Yang J, Reddy R, Lu DM;
 PI WPI; 2001-025334/03.
 DR P-PSDB; AAB64405.
 XX New human intracellular signalling molecules, useful for the diagnosis,
 PT prevention and treatment of cell proliferative, autoimmune, inflammatory,
 PT neurological, gastrointestinal, reproductive and developmental disorders.
 PS Claim 5; Page 182-183; 192pp; English.
 CC Sequences AAF32674 - AAF32689 represent cDNA encoding human intracellular
 CC signalling molecules INTRA1 - INTRA52, represented in AAB64369 -
 CC AAB64420. Modulators of the intracellular signalling molecules of the
 CC invention exhibit immunosuppressive; cytosolic; neuroprotective;
 CC nootropic; antiarteriosclerotic; cytosolic; neuroleptic;
 CC antibacterial; antifungal; antiviral; antiparasitic; antihelminthic; and
 CC antiparkinsonian activity. INTRA polypeptides their agonists and
 CC antagonists are useful for the treatment of a condition associated with
 CC decreased or increased expression of functional INTRA. Disorders
 CC associated with abnormal INTRA expression or activity include cell
 CC proliferative disorders e.g. arteriosclerosis and cancers; autoimmune or

CC inflammatory disorders e.g. Addison's disease and acquired
 CC immunodeficiency syndrome (AIDS); viral, bacterial, fungal, parasitic,
 CC protozoal and helminthic infections; gastrointestinal disorders e.g.
 CC dysphagia and irritable bowel syndrome; neurological disorders e.g.
 CC epilepsy and Parkinson's disease; prion diseases e.g. Creutzfeldt-Jakob
 CC disease and mental disorders e.g. anxiety, schizophrenia and Tourette's
 CC disorder. Antibodies immuno specific for the INTRA proteins may also be
 CC useful in the diagnosis of the above disorders
 XX Sequence 2317 BP; 676 A; 554 C; 545 G; 542 T; 0 U; 0 Other;
 SQ
 Query Match 86.9%; Score 1821.4; DB 4; Length 2317;
 Best Local Similarity 99.9%; Pred. No. 2.3e-104;
 Matches 1822; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 208 GCCGACAGCATGTCCTGGGGGGCCCGAGAGGTGAACCGGCTCAAGAGACACCTACCGG 267
 DB 30 GCCGACAGCATGTCCTGGGGGGCCCGAGAGGTGAACCGGCTCAAGAGACACCTACCGG 89
 QY 268 AATGTTATGGAACAGTTTCATCTCTGGGCTGCGAAATTTAATAACCTGGGAAAAATTTAT 327
 DB 90 AATGTTATGGAACAGTTTCATCTCTGGGCTGCGAAATTTAATAACCTGGGAAAAATTTAT 149
 QY 328 GAGAAAGCTTAAACGCTATGATCTGCGAGAAAAGCTTACTAGATGAGTGGCCCAAG 387
 DB 150 GAGAAAGCTTAAACGCTATGATCTGCGAGAAAAGCTTACTAGATGAGTGGCCCAAG 209
 QY 388 ATCGGTGAGATTGCACTGGGCTCCCGGTGTCACTGAACTGAGACATGTCTTCATAGAG 447
 DB 210 ATCGGTGAGATTGCACTGGGCTCCCGGTGTCACTGAACTGAGACATGTCTTCATAGAG 269
 QY 448 ATTTCAAGTACCCCAAGAACTCAACAGAGCTTGAAGAAATTTAATAAAATTCAC 507
 DB 270 ATTTCAAGTACCCCAAGAACTCAACAGAGCTTGAAGAAATTTAATAAAATTCAC 329
 QY 508 AAGAGATTATCCATGAGCTGAGAGAAAGATAGAACTTGCAGTGAATATATGAACGCA 567
 DB 330 AAGAGATTATCCATGAGCTGAGAGAAAGATAGAACTTGCAGTGAATATATGAACGCA 389
 QY 568 ACTCTAAAAAGATACCAACAGAACTCAACAGATTAATAGTCTTTGGAAATCCCA 627
 DB 390 ACTCTAAAAAGATACCAACAGAACTCAACAGATTAATAGTCTTTGGAAATCCCA 449
 QY 628 GCTGAGTGAAGAAAGATGCAAGAAAGCAAGAAAGCCGAAGCAACCTCAATATGA 687
 DB 450 GCTGAGTGAAGAAAGATGCAAGAAAGCAAGAAAGCCGAAGCAACCTCAATATGA 509
 QY 688 CACAAAGAAATTGAGTATGAGAGACCGTTACTTCTGTCAGAGTGAATCCGAATTC 747
 DB 510 CACAAAGAAATTGAGTATGAGAGACCGTTACTTCTGTCAGAGTGAATCCGAATTC 569
 QY 748 ATTCAGATGCTGCAAGAGGCTCTGCTTGAAGAGAGGCGCTTCTGCTTCTGCTT 807
 DB 570 ATTCAGATGCTGCAAGAGGCTCTGCTTGAAGAGAGGCGCTTCTGCTTCTGCTT 629
 QY 808 GATTAACACCTGCTGCTTGAAGAGCAATATATATATATATATATATATATATATATAT 867
 DB 630 GATTAACACCTGCTGCTTGAAGAGCAATATATATATATATATATATATATATATATAT 669
 QY 868 CTGAATTCAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 927
 DB 690 CTGAATTCAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 749
 QY 928 AAAATATGAT 987
 DB 750 AAAATATGAT 809
 QY 988 CCGCAGGCTTCAACCTAT 1047
 DB 810 CCGCAGGCTTCAACCTAT 869
 QY 1048 TCTAAATGCTCACCAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1107

D 870 TCTAATGCTACCAAGATGCCCGCTCTTCAGGACAGATATACAGTCCCTTG 929
Q 1108 ATGATATGTTTATTAATACCAAGCCAGCGCTGCCCGCAATTCACAAAGGTAATTAATCA 1167
D 930 ATGATATGTTTATTAATACCAAGCCAGCGCTGCCCGCAATTCACAAAGGTAATTAATCA 989
Q 1168 ACAGTACTTCCGAGATCCAGTTTACAGCATCAGTTTCGTTTGAACGGAGCTGAC 1227
D 990 ACAGTACTTCCGAGATCCAGTTTACAGCATCAGTTTCGTTTGAACGGAGCTGAC 1049
Q 1228 ATGATGAAGACGAAAGTGAAGACATCTTCCGACACTGCGGCTCCACAGACC 1287
D 1050 ATGATGAAGACGAAAGTGAAGACATCTTCCGACACTGCGGCTCCACAGACC 1109
Q 1288 TTAATGCTTTGACAGGAGATGATCATACGCTGTCATCCCGAGAGAGAGATGAGC 1347
D 1110 TTAATGCTTTGACAGGAGATGATCATACGCTGTCATCCCGAGAGAGATGAGC 1169
Q 1348 TGGCTCTATGAGAACACGACGTGTCCAAAGGCGAGGGTTGTTCCGCTGCTAGACG 1407
D 1170 TGGCTCTATGAGAACACGACGTGTCCAAAGGCGAGGGTTGTTCCGCTGCTAGACG 1229
Q 1408 AAGTTGCTGAAGAAATGAGACAGACAGTACCTGCTCCACGCCACCAACCA 1467
D 1230 AAGTTGCTGAAGAAATGAGACAGACAGTACCTGCTCCACGCCACCAACCA 1289
Q 1468 GTGGAAGACATCAGCACCGTGAATCTGTCTGAGAAATGAGAGTGTCTATCCGCCACCC 1527
D 1290 GTGGAAGACATCAGCACCGTGAATCTGTCTGAGAAATGAGAGTGTCTATCCGCCACCC 1349
Q 1528 GACTACTTGAAGATCTGTCTGATGGGGAGCTGCTCCACAGAGAGAGAGATTCGGCCAGG 1587
D 1350 GACTACTTGAAGATCTGTCTGATGGGGAGCTGCTCCACAGAGAGAGAGATTCGGCCAGG 1409
Q 1588 ACAGCATCCACTTTAAGGCGCCAGGCTCCAGCCGAGACCGGGCTCCTAACAGATGCC 1647
D 1410 ACAGCATCCACTTTAAGGCGCCAGGCTCCAGCCGAGACCGGGCTCCTAACAGATGCC 1469
Q 1648 AACGGGACTGCAAAAGCGGCTTTCTCAGGCGAGAAACCCCTTTGCACTGTAATCTC 1707
D 1470 AACGGGACTGCAAAAGCGGCTTTCTCAGGCGAGAAACCCCTTTGCACTGTAATCTC 1529
Q 1708 CGCCGCACTGTGACGAATGATCGCTCGGCAACCATTCATGATGAGAGACAGCCAAAGA 1767
D 1530 CGCCGCACTGTGACGAATGATCGCTCGGCAACCATTCATGATGAGAGACAGCCAAAGA 1589
Q 1768 CTCTCCCGGGCTCTCGGTTTCTCTTGGGAAATGATGGGCGCATCTCTGCGCACGT 1827
D 1590 CTCTCCCGGGCTCTCGGTTTCTCTTGGGAAATGATGGGCGCATCTCTGCGCACGT 1649
Q 1828 GCTGACGCTCGGAGAGCTTCAGTGGAGAGGCTTAATGTCGCTGCTTAAGCAA 1887
D 1650 GCTGACGCTCGGAGAGCTTCAGTGGAGAGGCTTAATGTCGCTGCTTAAGCAA 1709
Q 1888 TCATGCTTCTCTGTTTACGATGAGTGGGTTGACAAGTTTCTGCTTAAGTAATGAGT 1947
D 1710 TCATGCTTCTCTGTTTACGATGAGTGGGTTGACAAGTTTCTGCTTAAGTAATGAGT 1769
Q 1948 AATAGCTATGACGAGCTCAGCATTTAAATTTTCTTCTTATCTGTTCAAGAAC 2007
D 1770 AATAGCTATGACGAGCTCAGCATTTAAATTTTCTTCTTATCTGTTCAAGAAC 1829
Q 2008 AATAGCTATGACGAGCTCAGCATTTAAATTTTCTTCTTATCTGTTCAAGAAC 2030
D 1830 AATAGCTATGACGAGCTCAGCATTTAAATTTTCTTCTTATCTGTTCAAGAAC 1852

RESULT 3
ADM86946
ID ADM86946 standard; cDNA; 2471 BP.
XX
AC ADM86946;
XX

DT 03-JUN-2004 (first entry)
XX
DE Human protein encoding cDNA SEQ ID NO:39.
XX
KW respiratory; cytosolic; antiarthritic; antiinflammatory;
KW gastrointestinal; antibacterial; immunosuppressive; antidiabetic;
KW antineoplastic; gene therapy; molecular weight marker; chromosome marker;
KW chromosome tag; genetic fingerprinting; nutritional supplement; cancer;
KW inflammatory condition; arthritis; inflammatory bowel disease;
KW Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;
KW graft versus host disease; human; gene; ss.
XX
OS Homo sapiens.
XX
PN M02004009834-A2.
XX
PD 29-JAN-2004.
XX
PE 19-JUL-2002; 2002MO-US022858.
XX
PR 21-JUL-2001; 2001US-0306971P.
PR 28-MAR-2002; 2002US-00112944.
XX
PA (NUVE-) NUVELO INC.
XX
PI Tang Y, Yang Y, Wang G, Zhang J, Ren F, Xue A, Wang J;
PI Wehrman T, Ghosh MJ, Wang D, Zhao QA, Wang Z;
DR WPI; 2004-143291/14.
DR P-PSDB; ADM87190.
XX
PT New isolated polynucleotides and polypeptides, useful for treating, e.g.,
PT cancer, lung or liver fibrosis, arthritis, inflammatory bowel disease,
PT Crohn's disease, rheumatoid arthritis, diabetes mellitus type 1 or graft
PT versus host disease.
XX
PS Claim 1; SEQ ID NO 39; 591pp; English.
XX
CC The present invention describes an isolated polynucleotide (I): (a)
CC comprising a nucleotide sequence selected from SEQ ID NO:1-244; or (b)
CC which encodes a polypeptide with biological activity, where the
CC polynucleotide hybridizes to (I) under stringent hybridization conditions
CC or has greater than 99% sequence identity with (I). (I) has respiratory,
CC cytosolic, antiarthritic, antiinflammatory, gastrointestinal,
CC antibacterial, immunosuppressive, antidiabetic and antineoplastic
CC activities, and can be used in gene therapy. (I) can be used for
CC generating polynucleotides encoding chimeric or fusion proteins and
CC heterologous protein sequences. The polynucleotides can be used to
CC express recombinant protein for analysis, characterization or therapeutic
CC use; as markers for tissues in which the corresponding protein is
CC preferentially expressed; as molecular weight markers on gels; as
CC chromosome markers or tags to identify chromosomes or to map related gene
CC positions; to compare with endogenous DNA sequences in patients to
CC identify potential genetic disorders; as probes to hybridize and discover
CC genes; related DNA sequences; as a source of information to derive PCR
CC primers for genetic fingerprinting; as a probe to subtract-out known
CC sequences in the process of discovering other novel polynucleotides; for
CC selecting and making oligomers for attachment to a gene chip or other
CC support, including for examination of expression patterns; to raise anti-
CC protein antibodies using DNA immunisation techniques; and as an antigen
CC to raise anti-DNA antibodies or elicit another immune response. The
CC polynucleotides and polypeptides can also be used as nutritional sources
CC or supplements, e.g. as a protein or amino acid supplement, as a carbon
CC source, as a nitrogen source or as a source of carbohydrates. The
CC polynucleotides and polypeptides can also be used treat cancer. The
CC compositions are useful for promoting better or faster closure of non-
CC healing wounds, for the generation and regeneration of tissues, for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues, and conditions resulting from
CC systemic cytokine damage. The compositions can also be used to treat
CC inflammatory conditions (e.g. arthritis, inflammatory bowel disease or
CC Crohn's disease), sepsis, rheumatoid arthritis, diabetes mellitus type 1
CC or graft versus host disease. The present sequence represents a novel

CC human polynucleotide sequence from the present invention. N.B. The
 CC sequences for this patent were obtained from the USPTO web site from an
 CC equivalent US patent US20040048249A1.

SO Sequence 2471 BP; 681 A; 634 C; 585 G; 571 T; 0 U; 0 Other;

Query Match 72.3%; Score 1514.6; DB 12; Length 2471;
 Best Local Similarity 99.7%; Pred. No. 1.6e-251;
 Matches 1528; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

```

QY 499 AATTCCACAAGAGTATATCCATGAGTGAAGAGAGATAGAACTTGAACGTGAATAT 558
DB 1 AATTCCACAAGAGTATATCCATGAGTGAAGAGAGATAGAACTTGAACGTGAATAT 60
QY 559 ATGACGCACTCTAAAGATACCAACAGAAACAGAAATTAATAGATCTTTGGAG 618
DB 61 ATGACGCACTCTAAAGATACCAACAGAAATTAATAGATCTTTGGAG 120
QY 619 AATCCCAAGCTGATGGAAGAGATCAGAAAGAAAGCCAGAGACCGAAACGCACTC 678
DB 121 AATCCCAAGCTGATGGAAGAGATCAGAAAGAAAGCCAGAGACCGAAACGCACTC 180
QY 679 AATATGAAACAGAAAGAAATTTAGTATGTGAGACCGCTTCTCTGCTGAGTGAATC 738
DB 181 AATATGAAACAGAAAGAAATTTAGTATGTGAGACCGCTTCTCTGCTGAGTGAATC 240
QY 739 CAGAAATTCATTCAGATGGTTCAGAAAGAGCTCTGCTTGAAGAGAGAGCGCTTCGC 798
DB 241 CAGAAATTCATTCAGATGGTTCAGAAAGAGCTCTGCTTGAAGAGAGAGCGCTTCGC 300
QY 799 TTTCTGTTGATGAGACCTGTGGCTTTGCAACCACTACATTATATCACTTACAGTCT 858
DB 301 TTTCTGTTGATGAGACCTGTGGCTTTGCAACCACTACATTATATCACTTACAGTCT 360
QY 859 GAGAACTCTGAAATTCAGAGCTGCTGGTGGCAGAGACCTGTGTTGATGCAATCAAA 918
DB 361 GAGAACTCTGAAATTCAGAGCTGCTGGTGGCAGAGACCTGTGTTGATGCAATCAAA 420
QY 919 GTGCCAGAGAAATCATGAAATATGATCAGAAATTAAGACCCAGCTTACCCCGTGC 978
DB 421 GTGCCAGAGAAATCATGAAATATGATCAGAAATTAAGACCCAGCTTACCCCGTGC 480
QY 979 TCTGGAATCTCTCAGGCTTACCCATGATCAGAGAAAGCAATGTGTTAGAAAGATTAC 1038
DB 481 TCTGGAATCTCTCAGGCTTACCCATGATCAGAGAAAGCAATGTGTTAGAAAGATTAC 540
QY 1039 GACACCCCTTTAAATGCTCAACAAAGATGCCCCGCTCTTCAAGCAGAGATATACC 1098
DB 541 GACACCCCTTTAAATGCTCAACAAAGATGCCCCGCTCTTCAAGCAGAGATATACC 600
QY 1099 AGTCCCTTATGATGATGTTTAAATACCAAGCAGAGCTGCCCCGAATTCAAAAGGATA 1158
DB 601 AGTCCCTTATGATGATGTTTAAATACCAAGCAGAGCTGCCCCGAATTCAAAAGGATA 660
QY 1159 AATTAATTCACAGATCTTCCAGAGATCCCAAGTTTACAGCGATCAGTTTCGTTGCAACG 1218
DB 661 AATTAATTCACAGATCTTCCAGAGATCCCAAGTTTACAGCGATCAGTTTCGTTGCAACG 720
QY 1219 GACATGAATGATGAAAGAGAGAAAGTGAAGACATCTTCCCGACACTGGGGCTCC 1278
DB 721 GACATGAATGATGAAAGAGAGAAAGTGAAGACATCTTCCCGACACTGGGGCTCC 780
QY 1279 AACAGAGCTTACTAGCTTTTGACAGGAGATGTGATCAGCGTGTCAATCCCGAGAGAG 1338
DB 781 AACAGAGCTTACTAGCTTTTGACAGGAGATGTGATCAGCGTGTCAATCCCGAGAGAG 840
QY 1339 AAGAGTGGTGGCTCTATGAGAGACAGAGCTGTCCAGAGCGAGGGGTTGTTCCCGTGC 1398
DB 841 AAGAGTGGTGGCTCTATGAGAGACAGAGCTGTCCAGAGCGAGGGGTTGTTCCCGTGC 900
QY 1399 TCGTACAGAGATGTGCTGAGAGAAATGAGACAGAGAGATGACCGTGCACCGCAACG 1458
DB 901 TCGTACAGAGATGTGCTGAGAGAAATGAGACAGAGAGATGACCGTGCACCGCAACG 960

```

```

QY 1459 CCCACACAGTGAAGAGATCAGACCGTGAATCTGTGAGAAATGAGCTGTTCATC 1518
DB 961 CCCACACAGTGAAGAGATCAGACCGTGAATCTGTGAGAAATGAGCTGTTCATC 1020
QY 1519 CCCCACCCGACTACTTGGAAATGCTGTCCATGAGGGGAGAGCTCCGACAGAGAGAGAT 1578
DB 1021 CCCCACCCGACTACTTGGAAATGCTGTCCATGAGGGGAGAGCTCCGACAGAGAGAGAT 1080
QY 1579 TCGGCAAGACAGATCCATCCATTTAAGCCCCAGCGTCCAGGCCAGAGCCGGCTCT 1638
DB 1081 TCGGCAAGACAGATCCATCCATTTAAGCCCCAGCGTCCAGGCCAGAGCCGGCTCT 1140
QY 1639 AACGATGCCAAGCGAGCTGCAAGAGCGCTTTTCTGAGCGAGAGAAACCCCTTGGCACT 1698
DB 1141 AACGATGCCAAGCGAGCTGCAAGAGCGCTTTTCTGAGCGAGAGAAACCCCTTGGCACT 1200
QY 1699 GTGAAATCTCCGCCGACTGTGAGAAATGATGCTGTGCAACCCATCTGATGAGAGAC 1758
DB 1201 GTGAAATCTCCGCCGACTGTGAGAAATGATGCTGTGCAACCCATCTGATGAGAGAC 1260
QY 1759 AGCCAGAGACTCTCCCGGGCTCTCCGGTTCCTCTTGGGAATGATGGCGCATCTGT 1818
DB 1261 AGCCAGAGACTCTCCCGGGCTCTCCGGTTCCTCTTGGGAATGATGGCGCATCTGT 1320
QY 1819 CTGCCAGTGTGACGGTGGGAAAGCTTCAATGAGAGAGGCTTAATGTCGCTGC 1878
DB 1321 CTGCCAGTGTGACGGTGGGAAAGCTTCAATGAGAGAGGCTTAAATGTCGCTGC 1380
QY 1879 TTAAGCAATCATG-CTTCTGTGTTTACAGTATGTTGGTTGACAAATTTCTGCTTAAG 1937
DB 1381 TTAAGCAATCATG-CTTCTGTGTTTACAGTATGTTGGTTGACAAATTTCTGCTTAAG 1440
QY 1938 ATTAATGATTAATGCTTAATGACAGCTCAGCCATTTAAATATTTTCTCTATTCG 1997
DB 1441 ATTAATGATTAATGCTTAATGACAGCTCAGCCATTTAAATATTTTCTCTATTCG 1500
QY 1998 TTCAAGAAACAGTAAACTTGGTTTCAATCTTTA 2030
DB 1501 TTCAAGAAACAGTAAACTTGGTTTCAATCTTTA 1533

```

RESULT 4
 ADM87430
 ID ADM87430 standard; cDNA; 1510 BP.

XX ADM87430;
 XX
 XX
 DT 03-JUN-2004 (first entry)
 XX
 XX
 DE Human EST derived nucleotide sequence SEQ ID NO:523.
 XX
 XX
 KW respiratory; cytosolic; antiarthritic; antiinflammatory;
 KW gastrointestinal; antibacterial; immunosuppressive; antidiabetic;
 KW antihemetic; gene therapy; molecular weight marker; chromosome marker;
 KW chromosome tag; genetic fingerprinting; nutritional supplement; cancer;
 KW inflammatory condition; arthritis; inflammatory bowel disease;
 KW Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;
 KW graft versus host disease; human; expressed sequence tag; EST; gene; ss.
 XX
 XX Homo sapiens.
 XX
 XX WO2004009834-A2.
 XX
 PD 29-JAN-2004.
 XX
 XX 19-JUL-2002; 2002WO-US022858.
 PF
 XX 21-JUL-2001; 2001US-0306971P.
 PR 28-MAR-2002; 2002US-00112944.
 XX
 PA (NUVE-) NUVELO INC.
 XX

QY 1531 TACTGGAATGCTTTCATGAGGAGCTGCGACAGAGACAGATTGCGCCAGAGC 1590
DB 1321 TACTGGAATGCTTTCATGAGGAGCTGCGACAGAGACAGATTGCGCCAGAGC 1380
QY 1591 ACATCACCCTTTTAAAGCCCGACGCTCCAGCCGAGACCGGCTCTTAACGATGCCAAC 1650
DB 1381 ACATCACCCTTTTAAAGCCCGACGCTCCAGCCGAGACCGGCTCTTAACGATGCCAAC 1440
QY 1651 GGGACCTGCAAAAGCCGCTTTTCTCAGCGGAGAAAACCCCTTTCCTGCACTGCACTCCCGC 1710
DB 1441 GGGACCTGCAAAAGCCGCTTTTCTCAGCGGAGAAAACCCCTTTCCTGCACTGCACTCCCGC 1500
QY 1711 CCGACTGTGA 1720
DB 1501 CCGACTGTGA 1510

RESULT 5
ID ADR25944 standard; DNA; 2120 BP.
AC ADR25944;
DT 21-OCT-2004 (first entry)
XX Breast cancer prognosis marker #1805.
XX ds; breast cancer; prognosis; gene expression; diagnosis.
XX Homo sapiens.
XX MO2004065545-A2.
XX 05-AUG-2004.
XX 15-JAN-2004; 2004WO-US001100.
XX 15-JAN-2003; 2003US-00342887.
XX (ROSE-) ROSETTA INPHARMATICS LLC.
XX (NECA-) NETHERLANDS CANCER INST.
XX Van't Veer LJ, He Y;
XX WPI; 2004-593473/57.
XX
XX Classifying a breast cancer patient according to prognosis comprises
XX determining the similarity between the level of expression of each of
XX five genes in a cell sample taken from patient, to control levels.
XX
XX Disclosure; SEQ ID NO 1805; 226bp; English.
XX
XX The invention relates to a method of classifying a breast cancer patient
XX according to prognosis by determining the similarity between the level of
XX expression of each of five genes for which markers are listed in the
XX specification, in a cell sample taken from the breast cancer patient, to
XX control levels of expression for each respective five genes to obtain a
XX patient similarity value. The methods are useful for classifying a breast
XX cancer patient according to prognosis. Kits and computer program products
XX are useful for data analysis using the diagnostic, prognostic and
XX statistical methods of the invention. This sequence corresponds to a
XX marker used in the method of the invention.
XX
XX Sequence 2120 BP; 625 A; 513 C; 464 G; 518 T; 0 U; 0 Other;
XX
XX Query Match 58.0%; Score 1216.4; DB 13; Length 2120;
XX Best Local Similarity 98.3%; Pred. No. 3.7e-200;
XX Matches 1229; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 232 GAGGAGGTGAACCGGCTCACGAGAGCACTACCGGAATGTTATGGAACAGTTCAATCT 291
DB 292 GTGGGGGTGAACCTCCCTGTGTAATTAGATCGCCGAGATGTTATGGAACAGTTCAATCT 351

QY 292 GGGCTGCCAAATTTATATAACCTGGGGAATAATTAAGAAGCTGTAAACCTATGATC 351
DB 352 GGGCTGCCAAATTTATATAACCTGGGGAATAATTAAGAAGCTGTAAACCTATGATC 411
QY 352 CTGGCAGGAAAAGCTTACTACGATGAGTGGCCAGATCGTGAATGGCAGTGGCTCC 411
DB 412 CTGGCAGGAAAAGCTTACTACGATGAGTGGCCAGATCGTGAATGGCAGTGGCTCC 471
QY 412 CCCGTGTCACTGAACCTGGGACATGCTCTCATAGATTTCAAGTACCCACAAAGATCTC 471
DB 412 CCCGTGTCACTGAACCTGGGACATGCTCTCATAGATTTCAAGTACCCACAAAGATCTC 531
QY 472 AACGAGCTTGATGATAAATTTTAAATAATTCACAAAGAGATTATCATGAGCTGGAG 531
DB 532 AACGAGCTTGATGATAAATTTTAAATAATTCACAAAGAGATTATCATGAGCTGGAG 591
QY 532 AAGAGATAGAACTTGAAGTAAATATGAACGCACTTAAATAAGATACCAACAGAA 591
DB 592 AAGAGATAGAACTTGAAGTAAATATGAACGCACTTAAATAAGATACCAACAGAA 651
QY 592 CACAAAGATTAATTAAGATCTTTGGAGAAATCCCAAGCTGAGTTGAAGATCAAGAG 651
DB 652 CACAAAGATTAATTAAGATCTTTGGAGAAATCCCAAGCTGAGTTGAAGATCAAGAG 711
QY 652 AAAAGCCAAAGAGCCGAAAGCACTCAATATGAAACAAAGAAATTAAGATGAGTGGAG 711
DB 712 AAAAGCCAAAGAGCCGAAAGCACTCAATATGAAACAAAGAAATTAAGATGAGTGGAG 771
QY 712 ACCGTTACTTCTGTCAGAGTGAATCCAGAAATTCATTCAGAGTGGTGCAGAGAGCT 771
DB 712 ACCGTTACTTCTGTCAGAGTGAATCCAGAAATTCATTCAGAGTGGTGCAGAGAGCT 831
QY 712 CTGCTGAAGAGAGAGGCGCTCTGCTTTCTGTTGTAAGCACTGTCCTTTGCAAC 831
DB 832 CTGCTGAAGAGAGAGGCGCTCTGCTTTCTGTTGTAAGCACTGTCCTTTGCAAC 891
QY 832 CACATACATTAATTAATCACTTACAGTGCAGAACTACTGAATTCACAACTGCTGCTG 891
DB 892 CACATACATTAATTAATCACTTACAGTGCAGAACTACTGAATTCACAACTGCTGCTG 951
QY 892 CAGAGACCTGTGTTGATGCCATCAAGTGCAGAGAAATCATGATATGATGAGAA 951
DB 952 CAGAGACCTGTGTTGATGCCATCAAGTGCAGAGAAATCATGATATGATGAGAA 1011
QY 952 ATAAAGACCCGAGCTCAACCCCGTGTGTAAGTCTCTGAGCTTCAACCATGATGAG 1011
DB 1012 ATAAAGACCCGAGCTCAACCCCGTGTGTAAGTCTCTGAGCTTCAACCATGATGAG 1071
QY 1012 AGAAGCAATGTGTTAGAAAGATTAAGACACCTTTCTAATGCTCAGCAAGATGCC 1071
DB 1072 AGAAGCAATGTGTTAGAAAGATTAAGACACCTTTCTAATGCTCAGCAAGATGCC 1131
QY 1072 CCCGCTCTTTCAGCAGACATATACAGTCCCTTGATGATGATGTTTATATACCCAGCC 1131
DB 1132 CCCGCTCTTTCAGCAGACATATACAGTCCCTTGATGATGATGTTTATATACCCAGCC 1191
QY 1132 ACGGCTGCCCGGATTCAGAAAGGTTAAATTAATCAACGATCTTCGAGATGCCAGT 1191
DB 1192 ACGGCTGCCCGGATTCAGAAAGGTTAAATTAATCAACGATCTTCGAGATGCCAGT 1251
QY 1192 TTAACGAGATCAAGTTTGGTGTGCAACGAGCTGAACATGATGAGAAAGCAGAAAGTGA 1251
DB 1252 TTAACGAGATCAAGTTTGGTGTGCAACGAGCTGAACATGATGAGAAAGCAGAAAGTGA 1311
QY 1252 ACCATCTTCCCGCAGACACTGGGGGTCCAAACAGCTTATCTGACCTTTCAGAGAGAT 1311
DB 1312 ACCATCTTCCCGCAGACACTGGGGGTCCAAACAGCTTATCTGACCTTTCAGAGAGAT 1371
QY 1312 GTCATCAGCTGCTCATCCCGCAGAGAGAAAGATGCTGCTTATGAGAAACAGAGCTG 1371
DB 1372 GTCATCAGCTGCTCATCCCGCAGAGAGAAAGATGCTGCTTATGAGAAACAGAGCTG 1431
QY 1372 TCCAAGGCGAGGGGTGCTTCCGTCGTACAGAGATTGCTGAGAAATAATGAGACA 1431

```

Db      1432  TCACAGCGAGGAGGTTGTTCCCTGCTGTCACGAAAGTTGTCGAGAAAGAAATGAGACA 1491
Qy      1432  GAAACAGTGAACGTCGCCACGACCAAGCCCAACCACTGAGAGACATCAG 1481
Db      1492  GAAACAGTGAACGTCGCCACGACCAAGCCCAACCACTGAGAGAGCTTCAG 1541

RESULT 6
ADV43099 ID ADV43099 standard; cDNA; 1221 BP.
XX
XX ADV43099;
AC
XX 10-MAR-2005 (first entry)
XX
XX Human psychoneuroendocrinimmune expressed sequence tag SEQ ID NO 727.
XX
XX microarray; psychoneuroendocrinimmune; chronic fatigue;
XX non-insulin dependent diabetes; allergy; immune disorder; inflammation;
XX cancer; neoplasm; infection; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX
XX WO2004108899-A2.
XX
XX 16-DEC-2004.
XX
XX 04-JUN-2004; 2004WO-US017686.
XX
XX 04-JUN-2003; 2003US-0475915P.
XX
XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.
XX
XX Nicholson A, Vernon SD;
XX
XX WPI: 2005-031682/03.
XX
XX New microarray comprising probes for genes involved in
XX psychoneuroendocrinimmune (PNI) activity, useful in diagnosing a
XX condition associated with PNI activity, e.g., inflammatory or infectious
XX diseases.
XX
XX Claim 1; SEQ ID NO 727; 254bp; English.
XX
XX The invention relates to a new microarray which comprises probes for
XX genes involved in psychoneuroendocrinimmune (PNI) activity. The
XX microarray is useful in diagnosing a condition associated with PNI
XX activity, such as CFS, type-2 diabetes, allergic condition, inflammation,
XX cancer and infection. The present sequence represents a
XX psychoneuroendocrinimmune gene expressed sequence tag. Note the
XX specification mentions SEQ ID NO of up to 3314 but only sequences up to
XX SEQ ID NO 1829 are provided.
XX
XX Sequence 1221 BP; 397 A; 279 C; 288 G; 257 T; 0 U; 0 Other;
XX
Query Match 57.6%; Score 1206.4; DB 14; Length 1221;
Best Local Similarity 99.9%; Pred. No. 1.9e-198;
Matches 1207; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy      274  ATGGAACAGTTCATCTCGGAGTGCAGAAATTTAATAAACCCTGGGAGAAATTTAGAGAA 333
Db      1  ATGGAACAGTTCATCTCGGAGTGCAGAAATTTAATAAACCCTGGGAGAAATTTAGAGAA 60
Qy      334  GCTGTAAACGCTATGATCTCTGCGAGAGAAAAGCTTACTACATGAGAGTGGCCAGATCGGT 393
Db      61  GCTGTAAACGCTATGATCTCTGCGAGAGAAAAGCTTACTACATGAGAGTGGCCAGATCGGT 120
Qy      394  GAATTTGCCAATCGGTGCTCCCGGTGCAATGAACTGGGACATGCTCATAGAGATTCA 453
Db      121  GAATTTGCCAATCGGTGCTCCCGGTGCAATGAACTGGGACATGCTCATAGAGATTCA 180
Qy      454  AGTACCACAAGAAACTCAAGAGAGTCTTGATGAAATTTTAAAAAATTCACAAAGAG 513

```

```

Db      181  AGTACCACAAGAAACTCAAGAGAGTCTTGATGAAATTTTAAAAAATTCACAAAGAG 240
Qy      514  ATTATCATGAGCTGGAGAGAAAGATAGAACTTGAACCTGAAATATATAGAACCAACTCTA 573
Db      241  ATTATCATGAGCTGGAGAGAAAGATAGAACTTGAACCTGAAATATATAGAACCAACTCTA 300
Qy      574  AAAAGATACCAACAGAACCAAGAAATTAATAGAGTCTTTGGAGAAATCCCAAGCTGAG 633
Db      301  AAAAGATACCAACAGAACCAAGAAATTAATAGAGTCTTTGGAGAAATCCCAAGCTGAG 360
Qy      634  TTGAAGAGATCAGAAAGAAAGCCAGAGAAAGCCAGAAAGCACTCAATATAGAACACAAA 693
Db      361  TTGAAGAGATCAGAAAGAAAGCCAGAGAAAGCCAGAAAGCACTCAATATAGAACACAAA 420
Qy      694  GAAATGAGTATGAGAGACGTTACTTCTGTCAGAGTGAATTCAGAAATTCATTGCA 753
Db      421  GAAATGAGTATGAGAGACGTTACTTCTGTCAGAGTGAATTCAGAAATTCATTGCA 480
Qy      754  GATGGTTCAGAAAGAGGCTCTGCTTGAAGAGAGAGGCGCTTCTGCTGCTTGAAGAG 540
Db      481  GATGGTTCAGAAAGAGGCTCTGCTTGAAGAGAGAGGCGCTTCTGCTGCTTGAAGAG 540
Qy      814  CACTGTGCTTTGCAACCAATATATATATATATATATATATATATATATATATATATAT 873
Db      541  CACTGTGCTTTGCAACCAATATATATATATATATATATATATATATATATATATATAT 600
Qy      874  TCACAGCTGCTCGGTGCAAGAGACCTGTGTTAGTGCATCAAGTCCAGAGAAAATC 933
Db      601  TCACAGCTGCTCGGTGCAAGAGACCTGTGTTAGTGCATCAAGTCCAGAGAAAATC 660
Qy      934  ATGAATATGATCAAGAAATTAAGACCCAGCTTACCCCGGTGTCGAAATCTCTCAG 993
Db      661  ATGAATATGATCAAGAAATTAAGACCCAGCTTACCCCGGTGTCGAAATCTCTCAG 720
Qy      994  GCTTACCCATGATCGAAGAGCAATGATGTTAGAAAGATTAAGACACCTTTCTAAA 1053
Db      721  GCTTACCCATGATCGAAGAGCAATGATGTTAGAAAGATTAAGACACCTTTCTAAA 780
Qy      1054  TGCTCACCAAGAGATCCCGGCTCTCTTCAAGCAGAGATATACAGTCCCTGATCGAT 1113
Db      781  TGCTCACCAAGAGATCCCGGCTCTCTTCAAGCAGAGATATACAGTCCCTGATCGAT 840
Qy      1114  ATGTTTAATTAACCAAGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1173
Db      841  ATGTTTAATTAACCAAGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Qy      1174  ACTTCCGAAGATCCAGTTTACAGGATCAAGTTTGGTTGCAACGGGACTGAATGATG 1233
Db      901  ACTTCCGAAGATCCAGTTTACAGGATCAAGTTTGGTTGCAACGGGACTGAATGATG 960
Qy      1234  AAGAGCAGAAAGTGAAGACATCTTCCGCACTGCGGCTCCACAGACCTTATCTC 1293
Db      961  AAGAGCAGAAAGTGAAGACATCTTCCGCACTGCGGCTCCACAGACCTTATCTC 1020
Qy      1294  AGCTTTGACAGAGAGATGTCATCAAGCTGCTCATATCCCGAGAGAGAGATGGCTGCTC 1353
Db      1021  AGCTTTGACAGAGAGATGTCATCAAGCTGCTCATATCCCGAGAGAGAGATGGCTGCTC 1080
Qy      1354  TATGAGAAACAGAGAGTGTCCAAGGAGAGGTTGGTTCCCGTGTCTGATACAGAAAGTTG 1413
Db      1081  TATGAGAAACAGAGAGTGTCCAAGGAGAGGTTGGTTCCCGTGTCTGATACAGAAAGTTG 1140
Qy      1414  CTGGAAGAAATAGACAGAAAGCAAGTGCATGACCGTCCCAAGCCCAACCAAGTGA 1473
Db      1141  CTGGAAGAAATAGACAGAAAGCAAGTGCATGACCGTCCCAAGCCCAACCAAGTGA 1200
Qy      1474  AGCATCAG 1481
Db      1201  AGCTTCAG 1208

```

RESULT 7

AA573957
ID AA573957 standard; cDNA; 1729 BP.
XX
AC AA573957;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #9761.
XX
KM Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX MO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001MO-US008631.
XX
PR 31-MAR-2000; 2000US-00540217.
XX 23-AUG-2000; 2000US-00649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI: 2001-639362/73.
XX P-P5DB; ABG09770.
XX
DR
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity.
XX
XX
PS Claim 1; SEQ ID NO 9761; 103bp; English.
XX
XX
XX The invention relates to isolated polynucleotide (I) and polypeptide (II)
XX sequences. (I) is useful as hybridisation probes, polymerase chain
XX reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
XX and in recombinant production of (II). The polynucleotides are also used
XX in diagnostics as expressed sequence tags for identifying expressed
XX genes. (I) is useful in gene therapy techniques to restore normal
XX activity of (II) or to treat disease states involving (II). (II) is
XX useful for generating antibodies against it, detecting or quantitating a
XX polypeptide in tissue, as molecular weight markers and as a food
XX supplement. (II) and its binding partners are useful in medical imaging
XX of sites expressing (II). (I) and (II) are useful for treating disorders
XX involving aberrant protein expression or biological activity. The
XX polypeptide and polynucleotide sequences have applications in
XX diagnostics, forensics, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits to assess biodiversity
XX and to produce other types of data and products dependent on DNA and
XX amino acid sequences. AA564197-AA594564 represent novel human diagnostic
XX coding sequences of the invention. Note: The sequence data for this
XX patent did not appear in the printed specification, but was obtained in
XX electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pat_sequences
XX
SQ Sequence 1729 BP; 517 A; 426 C; 389 G; 397 T; 0 U; 0 Other;

Query Match 51.1%; Score 1071; DB 5; Length 1729;
Best Local Similarity 95.1%; Pred. No. 4.1e-175;
Matches 1205; Conservative 0; Mismatches 45; Indels 17; Gaps 9;

QY 232 GAGGAGGTGAACCGGCTGACGAGACACCTACCGGAATGTATGGAACAGTTCAATCCT 291
DB 277 GTGGGGGTGAACCTCCCTGTATATGATTCGCAAAATGTATGGAACAGTTCAATCCT 336
QY 292 GGGCTGCGAAATTTATATAACCTGGGGAATAATTATGAGAAGCTGTAAACGCTATGATC 351
DB 337 GGGCTGCGAAATTTATATAACCTGGGGAATAATTATGAGAAGCTGTAAACGCTATGATC 396

QY 352 CTGGCAGAAAAAGCCTACTACGATGAGTGGCCAAAGATCGGTGAGATTGCACTGGTCC 411
DB 397 CTGGCAGAAAAAGCCTACTACGATGAGTGGCCAAAGATCGGTGAGATTGCACTGGTCC 456
QY 412 CCGGTGTCAAC-TGAACCTGGGACATGTCTCATATGAGATTTCAGTACCCAGAAAGAAC- 469
DB 457 CCGGTGTCAACCTGGAACCTGGGACATGTCTCATATGAGATTTCAGTACCCAGAAAGAAC- 516
QY 470 TGAACGAGAGTCTT---GATGAATAATTTAAAAAATTCACAAAGAGATTATCCATGAGC 526
DB 517 TCAACGAGAGTCTTGTGATGAAAAATTTAAAAAATTCACAAAGAGATTATCCATGAGC 576
QY 527 TGGAGAAAGAAATAGAACTT-GACGTGAATAATATATGAAACGCAACTCTAAAAAGATACCA 585
DB 577 TGGAGAAAGAAATAGAACTTGTGACGTGAATAATATATGAAACGCAACTCTAAAAAGATACCA 636
QY 586 ACAGAAACACAGAAATTAATTTAGAGTCTTTGGAGAAATCCCAAGCTGATGAAAGAAATC 645
DB 637 ACAGAAACACAGAAATTAATTTAGAGTCTTTGGAGAAATCCCAAGCTGATGAAAGAAATC 696
QY 646 AGAAGGAAAAAGCCAAAGAAAGCCGAAACGCACTCAATATGAAACAAAGAAATTTGATAT 705
DB 697 AGAAGGAAAAAGCCAAAGAAAGCCGAAACGCACTCAATATGAAACAAAGAAATTTGATAT 756
QY 706 GTGAGACCGTTACTTCTGCTCAGAGTGAATCC-AGAAATTCATTGCAATGATGTTGCA 764
DB 757 GTGAGACCGTTACTTCTGCTCAGAGTGAATCC-AGAAATTCATTGCAATGATGTTGCA 816
QY 765 AGAGGCTGTGCTGTAAGAGAGAGGCG-----CTTCTGCTTTCTGTTGATAGACATG 818
DB 817 AGAGGCTGTGCTGTAAGAGAGAGGCGCTTCTGCTTTCTGTTGATAGAGACATG 876
QY 819 TGGCTTTGCAAA--CCACATACATTAATTAATCACTTACAGTCCGACAACTACGAAATTC- 875
DB 877 TGGCTTTGCAAA--CCACATACATTAATTAATCACTTACAGTCCGACAACTACGAAATTC 936
QY 876 CAAGCTGCTCGGTGACAGAGACCTGTGTGATGCAATCAAGTCC-CCAGAGAAATCA 934
DB 937 CAAGCTGCTCGGTGACAGAGACCTGTGTGATGCAATCAAGTCC-CCAGAGAAATCA 996
QY 935 TGAATATGATTCGAAGAAATTAAGAACCCGACCTCTACCCCGTGTGAACTCTCAGG 994
DB 997 TGAATATGATTCGAAGAAATTAAGAACCCGACCTCTACCCCGTGTGAACTCTCAGG 1056
QY 995 CTTCACCCATGATTCGAAGAAATTAAGAACCCGACCTCTACCCCGTGTGAACTCTCAGG 1054
DB 1057 CTTCACCCATGATTCGAAGAAATTAAGAACCCGACCTCTACCCCGTGTGAACTCTCAGG 1116
QY 1055 GCTCAACCAAGATGCCCCCGCTCTTACAGAGACATATACAGTCCCTTGATGATA 1114
DB 1117 GCTCAACCAAGATGCCCCCGCTCTTACAGAGACATATACAGTCCCTTGATGATA 1176
QY 1115 TGTATTAATTAACCAAGCAGCGCTGCCCCGAATTCACAAAGGTAATTAATTCACAGGTA 1174
DB 1177 TGTATTAATTAACCAAGCAGCGCTGCCCCGAATTCACAAAGGTAATTAATTCACAGGTA 1236
QY 1175 CTTCGGAATTCAGGTTTACAGGATGAGTTTGGTTGCAAGGGAGCTGAACATGATGA 1234
DB 1237 CTTCGGAATTCAGGTTTACAGGATGAGTTTGGTTGCAAGGGAGCTGAACATGATGA 1296
QY 1235 AGAAGCAGAAATGTAAGACATCTTCCGACACATCTGCGGCTTCACAAAGACCTTACTCA 1294
DB 1297 AGAAGCAGAAATGTAAGACATCTTCCGACACATCTGCGGCTTCACAAAGACCTTACTCA 1356
QY 1295 GCTTTGCAAGGAGATGTCATCAGCTGCTCATCTCCCGAGAGAAAGATGCTGCTCT 1354
DB 1357 GCTTTGCAAGGAGATGTCATCAGCTGCTCATCTCCCGAGAGAAAGATGCTGCTCT 1416
QY 1355 ATGAGAAACACAGCGTGTCAAGGCGAGGGGTTGGTTCCGCTGTGTGTCACAGAAATTC 1414
DB 1417 ATGAGAAACACAGCGTGTCAAGGCGAGGGGTTGGTTCCGCTGTGTGTCACAGAAATTC 1476
QY 1415 TGAAGAAATTAAGACAGAAAGATGACCGTCCCAAGCCCAACCAAGTGAAGAA 1474

DB 1477 TGGAGAGAAATAGACAGAGAGTACCTCCCAAGCCCAACACCAAGTAGAGA 1536
QY 1475 GCATCAG 1481
DB 1537 GCTTCAG 1543

RESULT 8
AAS73958
ID AAS73958 standard; cDNA; 1993 BP.
XX
AC AAS73958;
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #9762.
XX
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
XX Homo sapiens.
XX MO200175067-A2.
XX 11-OCT-2001.
XX 30-MAR-2001; 2001MO-US008631.
XX 31-MAR-2000; 2000US-00540217.
XX 23-AUG-2000; 2000US-00649167.
XX
XX (HYSE-) HYSEQ INC.
XX Drmanac RT, Liu C, Tang YT;
XX
XX MPI; 2001-639362/73.
XX P-PSDB; ABG09771.
XX
XX New isolated polynucleotide and encoded polypeptides, useful in
XX diagnostics, forensics, gene mapping, identification of mutations
XX PT responsible for genetic disorders or other traits and to assess
XX PT biodiversity.
XX
XX Claim 1; SEQ ID NO 9762; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and polypeptide (II)
CC sequences. (I) is useful as hybridisation probes, polymerase chain
CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
CC and in recombinant production of (II). The polynucleotides are also used
CC in diagnostics as expressed sequence tags for identifying expressed
CC genes. (I) is useful in gene therapy techniques to restore normal
CC activity of (II) or to treat disease states involving (II). (II) is
CC useful for generating antibodies against it, detecting or quantitating a
CC polypeptide in tissue, as molecular weight markers and as a food
CC supplement. (II) and its binding partners are useful in medical imaging
CC of sites expressing (II). (I) and (II) are useful for treating disorders
CC involving aberrant protein expression or biological activity. The
CC polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS6197-AAS94564 represent novel human diagnostic
CC coding sequences of the invention. Note: The sequence data for this
CC patent did not appear in the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

XX
SQ Sequence 1993 BP; 542 A; 491 C; 472 G; 487 T; 0 U; 1 Other;
Query Match 48.7%; Score 1021.2; DB 5; Length 1993;
Best Local Similarity 89.3%; Pred. No. 1.6e-166;
Matches 1211; Conservative 0; Mismatches 38; Indels 107; Gaps 6;

QY 680 AATATGAAACAAGAAATTGAGTATGAGAGACCTTACTTCTGTCAGAGTGAATCC 739
DB 158 AACTGAGGTGAATATATGAACTATGTGAGACCGTTACTTCTGTCAGAGTGAATCC 217
QY 740 AGAAATTCATTCGAGATGCTTGCAGAGAGCTCTGCTTGAAGAGAGGCGCTCTGCT 799
DB 218 AGAAATTCATTCGAGATGCTTGCAGAGAGCTCTGCTTGAAGAGAGGCGCTCTGCT 277
QY 800 TTCTGTTGATTAAGACCTGCTGCTTGCAGAGAGCTCTGCTTGAAGAGAGGCGCTCTGCT 859
DB 278 TTCTGTTGATTAAGACCTGCTGCTTGCAGAGAGCTCTGCTTGAAGAGAGGCGCTCTGCT 337
QY 860 CAGAACTACTGAATTCAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 919
DB 338 CAGAACTACTGAATTCAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 397
QY 920 TGGCAGAGAAATTCAGATATGATGAGAGAAATTAAGACCCAGCTTACCCCGCTGCT 979
DB 398 TGGCAGAGAAATTCAGATATGATGAGAGAAATTAAGACCCAGCTTACCCCGCTGCT 457
QY 980 CTGGAATCTCTCAGGCTTCAACCATGATGAGAGAGCAATGTGTTAGAGAAATTAAG 1039
DB 458 CTGGAATCTCTCAGGCTTCAACCATGATGAGAGAGCAATGTGTTAGAGAAATTAAG 501
QY 1040 ACACCTTTCTTAATGCTCAACCAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1099
DB 502 TCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 517
QY 1100 GTCCCTTGATCGATATGTTTAATACCAAGCAGCGCTGCTGCTGCTGCTGCTGCTGCT 1159
DB 518 TCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 535
QY 1160 ATATTCACAGGTACTTCCAGAGATCCAGTTTACAGCATGCTTCCGTTGCAACGG 1219
DB 536 AATTAGACAGGGTACTTCCAGAGATCCAGTTTACAGCATGCTTCCGTTGCAACGG 595
QY 1220 GACTGAACATGATGAG 1279
DB 596 GACTGAACATGATGAG 655
QY 1280 ACAAGACCTTACAGCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1339
DB 656 ACAAGACCTTACAGCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 715
QY 1340 AGATGCTGCTGCTTATGAG 1399
DB 716 AGATGCTGCTGCTTATGAG 775
QY 1400 GCTACAG 1459
DB 776 GCTACAG 835
QY 1460 CCAACACAG 1519
DB 836 CCAACACAG 895
QY 1520 CCAACACAG 1579
DB 896 CCAACACAG 955
QY 1580 CCGGCAAG 1639
DB 956 CCGGCAAG 1015
QY 1640 ACGATGCAAG 1699
DB 1016 ACGATGCAAG 1075
QY 1700 TGAAGCTCGCGGAGCTGTCGAGATGCTGTCGAGAGAGAGAGAGAGAGAGAGAGAGAG 1759
DB 1076 TGAAGCTCGCGGAGCTGTCGAGATGCTGTCGAGAGAGAGAGAGAGAGAGAGAGAGAG 1135

QY 1760 GCCAAGACTCTCC--GGGCTCTCCGTTCTCCCTTGGCGAATGATGGC--GCATCCT 1816
 DB 1136 GCCAAGACTCTCCCGGGCTCTCCGGTTCTCCCTTGGCGAATGATGGC--GCATCCT 1195
 QY 1817 GTTCCGACGCTCTGACGGTC--GGGAAGCTTCACTGAGAGGCTTAATCTTATGTCGC 1875
 DB 1196 GTTCCGACGCTCTGACGGTC--GGGAAGCTTCACTGAGAGGCTTAATCTTATGTCGC 1255
 QY 1876 TGGTAAAGCAATCATGCTCTCGTTTCAAGTAGTGGTGC--AAGTTTCGCTTT 1934
 DB 1256 TGGTAAAGCAATCATGCTCTCGTTTCAAGTAGTGGTGC--AAGTTTCGCTTT 1315
 QY 1935 AAGATAATGATGATATGCTTAATGACACAGCTCAGCAATTAATATTTCTCTAT 1994
 DB 1316 AAGATAATGATGATATGCTTAATGACACAGCTCAGCAATTAATATTTCTCTAT 1375
 QY 1995 CTGTTCAAGAAACAGTAACTTGTTTCAATCTTTA 2030
 DB 1376 CTGTTCAAGAAACAGTAACTTGTTTCAATCTTTA 1411
 RESULT 9
 ID ADT94962 standard; cDNA; 625 BP.
 AC ADT94962;
 XX
 DT 16-DEC-2004 (first entry)
 XX
 DE Colon cancer associated human cDNA sequence #481.
 XX
 KW Colon cancer; T cell; tumour protein; C634S; C635S; C637S; C640S; C636S;
 immunostimulant; human; ss.
 OS Homo sapiens.
 XX
 PN US2003087818-A1.
 XX
 PD 08-MAY-2003.
 XX
 PF 01-FEB-2002; 2002US-00066543.
 XX
 PR 02-FEB-2001; 2001US-0267400P.
 XX
 PR 07-FEB-2001; 2001US-0267382P.
 XX
 PR 11-MAY-2001; 2001US-0290322P.
 XX
 PR 12-JUL-2001; 2001US-0305265P.
 XX
 PR 16-AUG-2001; 2001US-0313077P.
 XX
 PA (CORI-) CORIXA CORP.
 XX
 PI Jiang Y, Chenuault RA, Xu J, Indirias CY, Lodes MJ, Secret H,
 PI Carter D, Fanger GR, Smith CL, Durham M, Stolk JA;
 DR WPI; 2003-040540/03.
 XX
 PT New isolated nucleic acids and polypeptides capable of eliciting a
 PT humoral and/or cellular immune response, useful for diagnosing,
 PT preventing or treating cancer, particularly colon cancer.
 XX
 PS Claim 1; SEQ ID NO 481; 87pp; English.
 XX
 CC The invention relates to polynucleotide and polypeptide sequences
 CC associated with cancer, particularly colon cancer. Also disclosed are (i)
 CC an expression vector comprising the polynucleotide, (ii) a host cell
 CC transformed or transfected with the expression vector, (iii) an isolated
 CC antibody, or its antigen-binding fragment, which specifically binds to
 CC the polypeptide, (iv) a method of detecting or determining the presence
 CC of cancer in a patient, (v) a fusion protein comprising at least one of
 CC the polypeptides, (vi) an oligonucleotide that hybridizes to the
 CC polynucleotide sequence under highly stringent conditions, and (vii) a
 CC method of stimulating and/or expanding T cells specific for a tumour
 CC protein. The polypeptide specifically comprises the amino acid sequence

CC of C634S, C635S, C637S, C640S, C636S or one of the potential open reading
 CC frames (ORFs) of C636S. These polypeptides are encoded by the
 CC polynucleotide sequences, where both are capable of eliciting a humoral
 CC and/or cellular immune response. The polynucleotides, polypeptides, and
 CC antibodies are useful for diagnosing, preventing or treating cancer,
 CC particularly colon cancer. The polynucleotide and polypeptide sequences
 CC are also useful in DNA strand invasion, antisense inhibition, mutational
 CC analysis, nucleic acid purification, isolation of transcriptionally
 CC active genes, blocking or transcription factor binding, genome cleavage
 CC or in situ hybridisation, and as enhancers of transcription or
 CC biomarkers. This sequence represents a human colon cancer associated
 CC cDNA. Note: The sequence data for this patent was obtained in electronic
 CC format directly from the USPTO web site at seqdata.uspto.gov
 XX
 SO Sequence 625 BP; 215 A; 127 C; 159 G; 124 T; 0 U; 0 Other;
 Query Match 28.3%; Score 594; DB 11; Length 625;
 Best Local Similarity 100.0%; Pred. No. 5.3e-93;
 Matches 594; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 205 GGGCCGCGAGCCATGTCGGGGGCGCGAGAGTGAACGGCTCAAGAGACCTAC 264
 DB 32 GGGCCGCGAGCCATGTCGGGGGCGCGAGAGTGAACGGCTCAAGAGACCTAC 91
 QY 265 CGGAATGTTATGGAACAGTTCAATCCTGGGCTGCGAATTTAATAAACCCTGGGGAATAAT 324
 DB 92 CGGAATGTTATGGAACAGTTCAATCCTGGGCTGCGAATTTAATAAACCCTGGGGAATAAT 151
 QY 325 TATGAGAAAGCTGTAAAGCTATGATCTGCGAGAAAGCCCTACTACATGAGAGTGGC 384
 DB 152 TATGAGAAAGCTGTAAAGCTATGATCTGCGAGAAAGCCCTACTACATGAGAGTGGC 211
 QY 385 AAGATCGGAGATTTGCGACCTGGTCCCGGTGTCACCTGAACTGGGACATGCTCAT 444
 DB 212 AAGATCGGAGATTTGCGACCTGGTCCCGGTGTCACCTGAACTGGGACATGCTCAT 271
 QY 445 GAGATTTCAAGTACCACAGAAAGCTCAACGAGAGTCTTGATGAATAATTTAAAAATTC 504
 DB 272 GAGATTTCAAGTACCACAGAAAGCTCAACGAGAGTCTTGATGAATAATTTAAAAATTC 331
 QY 505 CACAAAGAGATTATCCATGAGCTGAGAGAAAGATGAACTTGAGTGAATATATGAAC 564
 DB 332 CACAAAGAGATTATCCATGAGCTGAGAGAAAGATGAACTTGAGTGAATATATGAAC 391
 QY 565 GCAACTCTAAAGATACCAACAGAACAGAAATTAATTAAGCTTTGGAGAAATCC 624
 DB 392 GCAACTCTAAAGATACCAACAGAACAGAAATTAATTAAGCTTTGGAGAAATCC 451
 QY 625 CAAGCTGAGTTGAAGATCAGAAAGAAAGCCAAAGAGCCGAAACGCACTCAATAT 684
 DB 452 CAAGCTGAGTTGAAGATCAGAAAGAAAGCCAAAGAGCCGAAACGCACTCAATAT 511
 QY 685 GAACACAAAGAAATGATGATGTGAGACCTTACTCTGTCAGAGTGAATTCGAGAA 744
 DB 512 GAACACAAAGAAATGATGATGTGAGACCTTACTCTGTCAGAGTGAATTCGAGAA 571
 QY 745 TTCATTGCGAGAGTTCGAAAGAGGCTGCTGAAGAGAGGCGCTTGC 798
 DB 572 TTCATTGCGAGAGTTCGAAAGAGGCTGCTGAAGAGAGGCGCTTGC 625
 RESULT 10
 ID ADX41444 standard; cDNA; 625 BP.
 AC ADX41444;
 XX
 DT 21-APR-2005 (first entry)
 XX
 DE Human cDNA encoding colon cancer protein SEQ ID NO 481.
 XX
 KW Cytostatic; Immunostimulant; therapy; diagnosis; colon cancer; neoplasia;
 ss; gene.

Db 288 GAGATTTCAGATGCCCAAGAACTCAGAGAGTCTTGATGAAATTTTAAAAATTC 347
QY 505 CACAAAGAGATTATCCATGAGCTGAGAGAGATGAGTGAATTTATATGAC 564
Db 348 CACAAAGAGATTATTCATGAGCTGAGAGAGATGAGTGAATTTATATGAC 407
QY 565 GCAACTCTAAAAAGATGCCAAGAGAAACAAGAAATTAATAGATCTTTGAGAAATCC 624
Db 408 GCAACTCTTAAAGATGCCAAGAGAAACAAGAAATTAATAGATCTTTGAGAAATCC 467
QY 625 CAGAGTGTGAGAGATGAGAGAGAAAGCCAGAGAGCCGAAACGCACTCAATAT 684
Db 468 CAGAGTGTGAGAGATGAGAGAGAAAGCCAGAGAGCCGAAACGCACTCAATAT 527
QY 685 GAAACAAAGAAATTTGAGTATGAGAGAGCCGTACTCTCTGAGAGTGAATTCAGAAA 744
Db 528 GAAACAAAGAAATTTGAGTATGAGAGAGCCGTACTCTTNTGTCAGAGTGAATTCANAAA 587
QY 745 TTCAATTGAGATGGTGGCAAGAGAGCTGCTTGAAGAGAGAGAGCCGCTTCTGC 798
Db 588 TTCAATTGAGATGGTGGCAAGAGAGCTGCTTGAAGAGAGAGAGCCGCTTCTGC 641

RESULT 13

ID ADX41953 standard; cDNA; 641 BP.

XX ADX41953;

XX 21-APR-2005 (first entry)

XX Human cDNA encoding colon cancer protein SEQ ID NO 990.

XX Cytostatic; Immunostimulant; therapy; diagnosis; colon cancer; neoplasia;

XX ss; gene.

XX Homo sapiens.

XX WO200274156-A2.

XX 26-SEP-2002.

XX 01-FEB-2002; 2002MO-US002870.

XX 02-FEB-2001; 2001US-0267400P.

XX 07-FEB-2001; 2001US-0267382P.

XX 11-MAY-2001; 2001US-0290322P.

XX 12-JUL-2001; 2001US-0305265P.

XX 16-AUG-2001; 2001US-0313077P.

XX (CORI-) CORIXA CORP.

XX Jiang Y, Chenault RA, Xu J, Indrias CY, Lodes MJ, Secrist H;

XX Carter D, Fanger GR, Smith CL, Durham M, Stoik JA;

XX WPI; 2003-040540/03.

XX Claim 1; SEQ ID NO 990; 244pp; English.

XX The invention relates to a new isolated nucleic acid. The nucleic acids,

XX polypeptides, antibodies are useful for diagnosing, preventing or

XX treating cancer, particularly colon cancer. The nucleic acid and

XX polypeptides are also useful in DNA strand invasion, antisense

XX inhibition, mutational analysis, nucleic acid purification, isolation of

XX transcriptionally active genes, blocking or transfection factor binding,

XX genome cleavage or in situ hybridization, and as enhancers of

XX transcription or biomarkers. The kits are useful for detecting antibody

XX binding. The present sequence represents a human cDNA encoding a colon

XX cancer protein.

XX SQ Sequence 641 BP; 217 A; 127 C; 154 G; 129 T; 0 U; 14 Other;

Query Match 27.5%; Score 576.2; DB 11; Length 641;

Best Local Similarity 97.3%; Pred. No. 6; 2e-90;

Matches 578; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 205 GCGCGCGACGACATGTCGCCGGGGGCCCGAGAGGTGAACCGGCTCAACGAGACACCTAC 264
Db 48 GCGCGCGACGACATGTCGCCGGGGGCCCGAGAGGTGAACCGGCTCAACGAGACACCTAC 107
QY 265 CGGATGTTATGGAACGATTCATCTCTGGCTCCGAAATTTAATTAACCTGGGGAATAT 324
Db 108 CGGATGTTATGGAACGATTCATCTCTGGCTCCGAAATTTAATTAACCTGGGGAATAT 167
QY 325 TATGAGAAAGCTGTAAACGCTATGATCTGCGAGAGAAACCTTAACCTGAGAGTGGCC 384
Db 168 TATGAGAAAGCTGTAAACGCTATGATCTGCGAGAGAAACCTTAACCTGAGAGTGGCC 227
QY 385 AAGATCGGTGAGATGGCACTGGGTCGCCGCTGTCAATGTAACCTGGAGACATGTCCTATA 444
Db 228 AAGATCGGTGAGATGGCACTGGGTCGCCGCTGTCAATGTAACCTGGAGACATGTCCTATA 287
QY 445 GAGATTTCAGATGCCCAAGAACTCAGAGAGTCTTGATGAAATTTTAAAAATTC 504
Db 288 GAGATTTCAGATGCCCAAGAACTCAGAGAGTCTTGATGAAATTTTAAAAATTC 347
QY 505 CACAAAGAGATTATCCATGAGCTGAGAGAGATGAGTGAATTTAGAGTCTTTGAGAAATCC 564
Db 348 CACAAAGAGATTATCCATGAGCTGAGAGAGATGAGTGAATTTAGAGTCTTTGAGAAATCC 407
QY 565 GCAACTCTAAAAAGATGCCAAGAGAAACAAGAAATTAATAGATCTTTGAGAAATCC 624
Db 408 GCAACTCTTAAAGATGCCAAGAGAAACAAGAAATTAATAGATCTTTGAGAAATCC 467
QY 625 CAGAGTGTGAGAGATGAGAGAGAAAGCCAGAGAGCCGAAACGCACTCAATAT 684
Db 468 CAGAGTGTGAGAGATGAGAGAGAAAGCCAGAGAGCCGAAACGCACTCAATAT 527
QY 685 GAAACAAAGAAATTTGAGTATGAGAGAGCCGTACTCTCTGAGAGTGAATTCAGAAA 744
Db 528 GAAACAAAGAAATTTGAGTATGAGAGAGCCGTACTCTTNTGTCAGAGTGAATTCANAAA 587
QY 745 TTCAATTGAGATGGTGGCAAGAGAGCTGCTTGAAGAGAGAGAGCCGCTTCTGC 798
Db 588 TTCAATTGAGATGGTGGCAAGAGAGCTGCTTGAAGAGAGAGAGCCGCTTCTGC 641

RESULT 14

ID ABK29726 standard; cDNA; 559 BP.

XX ABK29726;

XX 23-APR-2002 (first entry)

XX Colon adenocarcinoma-specific cDNA #252.

XX Human; colon adenocarcinoma; colon cancer; tumour; gene; ss.

XX Homo sapiens.

XX WO200196389-A2.

XX 20-DEC-2001.

XX 07-JUN-2001; 2001MO-US018574.

XX 09-JUN-2000; 2000US-0210667P.

XX 22-NOV-2000; 2000US-0252614P.

XX (CORI-) CORIXA CORP.

PI Meagher MJ, King GE, Xu J, Secretat H;
 XX WPI; 2002-098052/13.
 XX
 PT New isolated polynucleotide encoding a polypeptide comprising a portion
 PT of colon tumor protein, for detection, diagnosis and therapy of human
 PT colon cancer.
 XX
 PS Claim 1; Page 178-179; 211pp; English.
 XX
 CC The invention relates to an isolated polynucleotide (I) encoding a
 CC polypeptide (II) comprising a portion of a colon tumor protein. A new
 CC oligonucleotide (III) that hybridizes to (I) is useful for determining
 CC the presence of a cancer in a patient. (II) or antigen presenting cells
 CC expressing (I) are useful for stimulating and/or expanding T cells
 CC specific for a tumor protein, by contacting T cells with (I), (II) or
 CC antigen-presenting cells that express (I). (I), (II), or antigen
 CC presenting cells that express (II) are useful for treating colon cancer
 CC in a patient by incubating CD4+ and/or CD8+ T cells isolated from a
 CC patient with (I), (II), or antigen presenting cells that express (II), so
 CC that T cells proliferate, and administering to the patient an effective
 CC amount of the proliferated T cells, thus inhibiting the development of a
 CC cancer in the patient. A new composition is useful for stimulating an
 CC immune response in a patient. (I) or (II) is useful in vaccines and
 CC pharmaceutical compositions for prevention and treatment of colon cancer
 CC and for the diagnosis and monitoring of the cancers. (I), (II) or an
 CC antibody against (II) is useful for detection, diagnosis and/or therapy
 CC of human colon cancer. (I) is useful as a probe or primer for nucleic
 CC acid hybridization, and in the design and preparation of ribozyme
 CC molecules for inhibiting expression of (II) in tumor cells. ABK29475-
 CC ABK29851 represent human colon adenocarcinoma-specific CDNA sequences of
 CC the invention
 XX
 XX Sequence 559 BP; 160 A; 148 C; 132 G; 116 T; 0 U; 3 Other;
 Query Match 26.5%; Score 556; DB 6; Length 559;
 Best Local Similarity 99.5%; Pred. No. 1.8e-86;
 Matches 556; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 863 AACTAGTGAATTCAGCTGCTCGTGGAGAGAGACCTGTGATGACCATCAAGTGC 922
 DB 1 AACTAGTGAATTCAGCTGCTCGTGGAGAGAGACCTGTGATGATCAAAATGTC 60
 QY 923 CAGAGAAATCATGAAATATGATGAGAAATTAAGACCCAGGCTTACCCGGTGTCTG 982
 DB 61 CAGAGAAATCATGAAATATGATGAGAAATTAAGACCCAGGCTTACCCGGTGTCTG 120
 QY 983 GAACTCCTCAGGCTTCCATGATGAGAGAGAAAGCAATGTGTAGAAAGATTACGACA 1042
 DB 121 GAACTCCTCAGGCTTCCATGATGAGAGAGAAAGCAATGTGTAGAAAGATTACGACA 180
 QY 1043 CCCTTCTAATGCTCAGCAAGATGCCCCCGCTCTTACGACAGAGCTATACCATGTC 1102
 DB 181 CCCTTCTAATGCTCAGCAAGATGCCCCCGCTCTTACGACAGAGCTATACCATGTC 240
 QY 1103 CCTTATGATATGTTAATTAACCCAGGCTGCGCCGGAATTCACAAAGGTTAAATA 1162
 DB 241 CCTTATGATATGTTAATTAACCCAGGCTGCGCCGGAATTCACAAAGGTTAAATA 300
 QY 1163 ATTCAACAGGTTCTCCGAAGATCCCAATTACAGGATCAAGTTTCGGTTGCAACGGGAC 1222
 DB 301 ATTCAACAGGTTCTCCGAAGATCCCAATTACAGGATCAAGTTTCGGTTGCAACGGGAC 360
 QY 1223 TGAACATGATGAGAGAGAGAAAGTGAAGCATCTTCCGACACACTGGGGGCTCCAAAC 1282
 DB 361 TGAACATGATGAGAGAGAGAAAGTGAAGCATCTTCCGACACACTGGGGGCTCCAAAC 420
 QY 1283 AGACCTTACTCAGCTTTCGACAGAGAGATGTCATCAGCTGCTCATCCCGAGAGAGAAG 1342
 DB 421 AGACCTTACTCAGCTTTCGACAGAGAGATGTCATCAGCTGCTCATCCCGAGAGAGAAG 480
 QY 1343 ATGGCTGCTCTATGAGAAACAGAGAGTGTCCAGGCGAGGGGTTGGTCCGCTCGT 1402

DB 481 ATGGCTGCTCTATGAGAAACAGAGAGTGTCCAGGAGGGGTTGGTCCGCTCGTGT 540
 QY 1403 ACAGAGATGCTCTGAGAGA 1421
 DB 541 ACAGAGATGCTCTGAGAGA 559
 RESULT 15
 ADT94802
 ID ADT94802 standard; cDNA; 539 BP.
 XX
 AC ADT94802;
 XX
 DT 16-DEC-2004 (first entry)
 XX
 DE Colon cancer associated human cDNA sequence #321.
 XX
 KW Colon cancer; T cell; tumor protein; C634S; C635S; C637S; C640S; C636S;
 KW humoral immune response; cellular immune response; cytostatic;
 KW immunostimulant; human; ss.
 OS
 OS Homo sapiens.
 PN
 PN US2003087818-A1.
 PD
 PD 08-MAY-2003.
 PF
 PF 01-FEB-2002; 2002US-00066543.
 XX
 XX 02-FEB-2001; 2001US-0267400P.
 PR 07-FEB-2001; 2001US-0267382P.
 PR 11-MAY-2001; 2001US-0290322P.
 PR 12-JUN-2001; 2001US-0305265P.
 PR 16-AUG-2001; 2001US-0313077P.
 XX
 XX (CORI-) CORIYA CORP.
 PA
 PA Jiang Y, Chenault RA, Xu J, Indirias CY, Lodes MJ, Secretat H;
 PI Carter D, Fanger GR, Smith CL, Durham M, Stolk JA;
 PI WPI; 2003-040540/03.
 DR
 DR
 PT
 PT New isolated nucleic acids and polypeptides capable of eliciting a
 PT humoral and/or cellular immune response, useful for diagnosing,
 PT preventing or treating cancer, particularly colon cancer.
 XX
 XX Claim 1; SEQ ID NO 321; 87pp; English.
 PS
 PS The invention relates to polynucleotide and polypeptide sequences
 CC associated with cancer, particularly colon cancer. Also disclosed are (i)
 CC an expression vector comprising the polynucleotide, (ii) a host cell
 CC transformed or transfected with the expression vector, (iii) an isolated
 CC antibody, or its antigen-binding fragment, which specifically binds to
 CC the polypeptide, (iv) a method of detecting or determining the presence
 CC of cancer in a patient, (v) a fusion protein comprising at least one of
 CC the polypeptides, (vi) an oligonucleotide that hybridizes to the
 CC polynucleotide sequence under highly stringent conditions, and (vii) a
 CC method of stimulating and/or expanding T cells specific for a tumor
 CC protein. The polypeptide specifically comprises the amino acid sequence
 CC of C634S, C635S, C637S, C640S, C636S or one of the potential open reading
 CC frames (ORFs) of C636S. These polypeptides are encoded by the
 CC polynucleotide sequences, where both are capable of eliciting a humoral
 CC and/or cellular immune response. The polynucleotides, polypeptides, and
 CC antibodies are useful for diagnosing, preventing or treating cancer,
 CC particularly colon cancer. The polynucleotide and polypeptide sequences
 CC are also useful in DNA strand invasion, antisense inhibition, mutational
 CC analysis, nucleic acid purification, isolation of transcriptionally
 CC active genes, blocking or transcription factor binding, genome cleavage
 CC or in situ hybridization, and as enhancers of transcription or
 CC biomarkers. This sequence represents a human colon cancer associated
 CC cDNA. Note: The sequence data for this patent was obtained in electronic
 CC format directly from the USPTO web site at seqdata.uspto.gov
 XX

Sequence 539 BP; 191 A; 106 G; 132 G; 105 T; 0 U; 5 Other;

Query Match 24.8%; Score 520.8; DB 11; Length 539;

Best Local Similarity 98.7%; Pred. No. 2.1e-80;

Matches 522; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```
QY 205 GCGGCGCGGACCCCTGTCCTCCGCGGGGCGCGGAGGTGACCGGCTCACGGGAGGACCTAC 264
    |||||
DB 11 GCGGCGCGCANCCMTGTCCTCCGCGGGGCGCGGAGGTGACCGGCTCACGGGAGGACCTAC 70
    |||||
QY 265 CGGATGTTATGGAACAGTTCATCTGGGCTCGGAATTTAACTGGGGAATAAT 324
    |||||
DB 71 NGGAATGTTATGGAACAGTTCATCTGGGCTCGGAATTTAACTGGGGAATAAT 130
    |||||
QY 325 TATGAGAAAGCTGTAAACGCTATGATCTGGCAGGAAAGCCTTACTACATGAGTGGCC 384
    |||||
DB 131 TATGAGAAAGCTGTAAACGCTATGATCTGGCAGGAAAGCCTTACTACATGAGTGGCC 190
    |||||
QY 385 AAGATGGTGAGATTGCACTGGGTCCTCCGCTGTCACACTGAGTGGGACATGTCCTATA 444
    |||||
DB 191 AAGATGGTGAGATTGCACTGGGTCCTCCGCTGTCACACTGAGTGGGACATGTCCTATA 250
    |||||
QY 445 GAGATTTCAAGTACCCACAAAGAACTCAACGAGAGTCTTGATGAAATTTTAAAAATTG 504
    |||||
DB 251 GAGATTTCAAGTACCCACAAAGAACTCAACGAGAGTCTTGATGAAATTTTAAAAATTG 310
    |||||
QY 505 CACAAAGAGATTATCCATGAGCTGGAGAGAGATAGAACTTGACCTGAAATATATGAAC 564
    |||||
DB 311 CACAAAGAGATTATCCATGAGCTGGAGAGAGATAGAACTTGACCTGAAATATATGAAC 370
    |||||
QY 565 GCAACTCTAAAAAGATACCAACAGAACACAGAAATTAATTAAGTCTTTGGAGAAATCC 624
    |||||
DB 371 GCAACTCTAAAAAGATACCAACAGAACACAGAAATTAATTAAGTCTTTGGAGAAATCC 430
    |||||
QY 625 CAAGCTGAGTTGAAGAGATCAGAGGAAAAAGCCAGAAAGCCGAAACGCACTCAATAT 684
    |||||
DB 431 CAAGCTGAGTTGAAGAGATCAGAGGAAAAAGCCAGAAAGCCGAAACGCACTCAATAT 490
    |||||
QY 685 GAACACAAAGAAATTTGATGATGAGACCGTTACTTCTGTCAGAGTG 733
    |||||
DB 491 GAACACAAAGAAATTTGATGATGAGACCGTTACTTCTGTCAGAGTG 539
    |||||
```

Search completed: March 20, 2006, 13:54:24

Job time : 861 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:39:51 ; Search time 8382 Seconds
(without alignments)
11699.562 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096
Sequence: 1 ctcctcgcctcgcgaagaa.....aaaaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST.*
1: gb_est1.*
2: gb_est2.*
3: gb_est3.*
4: gb_hic.*
5: gb_est4.*
6: gb_est5.*
7: gb_est6.*
8: gb_est7.*
9: gb_gss1.*
10: gb_gss2.*
11: gb_gss3.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1475.8	70.4	1479	11	DQ051599 Homo sapi
2	1223.4	58.4	3245	4	AK004918 Mus muscu
3	1189.2	56.7	2214	4	AK008203 Mus muscu
4	950.0	45.3	1479	11	DQ051600 Pan trogl
5	852.2	40.7	909	5	BUI53780 BUI53780
6	830.0	39.6	848	5	BUI84787 AGENCOURT
7	811.4	38.7	895	5	BQ888698 BQ888698
8	803.4	38.3	814	6	CA450094 UI-CF-FNO
9	794.8	37.9	877	5	BUI84917 AGENCOURT
10	792.2	37.8	916	5	BQ688252 AGENCOURT
11	775.2	37.0	812	3	BI333892 60299431
12	768.4	36.7	779	3	BM981661 UI-CF-FNO
13	762.6	36.4	943	5	BUI500695 AGENCOURT
14	760.4	36.3	996	3	BI335025 602999031
15	757.2	36.1	933	2	BG764459 602718666
16	751.8	35.9	880	3	BQ233322 AGENCOURT
17	739.0	35.3	739	7	CN392816 UI-CF-FNO
18	732.8	35.0	763	5	BUI689777 UI-CF-FNO
19	724.2	34.6	876	5	BUI76351 AGENCOURT
20	722.8	34.5	756	8	DR005158 TC113380
21	718.8	34.3	747	2	BI255527 602975670
22	717.0	34.2	717	3	BI335902 Tmd119 Hu

23	713.4	34.0	720	2	BF732309
24	707.8	33.8	725	2	BG682313
25	696.8	33.2	919	2	BG674550
26	688.2	32.8	712	5	BUI633552
27	686.4	32.7	924	5	BQ922694 AGENCOURT
28	676.0	32.3	676	3	BM817746 K-EST0084
29	665.8	31.8	847	2	BG034422 602302824
30	663.4	31.7	690	1	AM473168 xq12f05.x
31	661.8	31.6	690	1	AI924372
32	647.6	30.9	662	1	BM968354
33	647.4	30.9	989	2	BG033827
34	638.2	30.4	688	1	AM374090 PM4-BT054
35	637.0	30.4	648	7	CV027819
36	612.2	29.2	680	2	BE732245
37	607.0	28.9	914	2	BG335429
38	604.8	28.9	890	5	BI181833
39	597.4	28.5	789	3	BI560834
40	595.0	28.4	1009	5	BY708155
41	593.4	28.3	902	3	BI332789
42	585.4	27.9	588	2	BG766055
43	583.8	27.7	863	5	BUI501073
44	581.0	27.7	581	3	BM852920
45	578.6	27.6	931	5	BQ960401

ALIGNMENTS

RESULT 1
LOCUS DQ051599 1479 bp DNA linear GSS 02-JUN-2005
DEFINITION Homo sapiens LOC55971 gene, VIRUAL TRANSCRIPT, partial sequence,
GENOMIC SURVEY SEQUENCE.
ACCESSION DQ051599 GI:66904813
VERSION DQ051599.1
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 1479)
Nielsen, R., Bustamante, C., Clark, A.G., Glanowski, S., Sackton, T.B., Hubisz, M.J., Fedel, A.M., Tanenbaum, D.M., Civeille, D., White, T.J., Sniinsky, V.J., Adams, M.D. and Cargill, M.
A Scan for Positively Selected Genes in the Genomes of Humans and Chimpanzees
(er) PLOS Biol. 3 (6), E170 (2005)
JOURNAL PUBMED 15869325
REFERENCE 2 (bases 1 to 1479)
Nielsen, R., Bustamante, C., Clark, A.G., Glanowski, S., Sackton, T.B., Hubisz, M.J., Fedel, A.M., Tanenbaum, D.M., Civeille, D., White, T.J., Sniinsky, V.J., Adams, M.D. and Cargill, M.
Direct Substitution
Submitted (05-MAY-2005) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering them based on alignment. Translation starts at the beginning of alignment.
FEATURES
source location/Qualifiers
1..1479
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="7"
<1..>1479
/gene="LOC55971"
/locus_tag="HC19618"
ORIGIN
Query Match 70.4%; Score 1475.8; DB 11; Length 1479;
Best Local Similarity 99.9%; Pred. No. 1e-290; 2; Indels 0; Gaps 0;
Matches 1477; Conservative 0; Mismatches 2;

QY 274 ATGGAACATTTCAATCTGGGCTGCCAAATTTAATAAAGCTGGGAAAAATTTATGAGAA 333
 DB 1 ATGGAACAGTTCAATCTGGGCTGCCAAATTTAATAAAGCTGGGAAAAATTTATGAGAA 60
 QY 334 GCTGTAAAGCTTGAATCTGGGAGGAAAGCCCTACTAGATGAGATGGGCAAGATCGGT 393
 DB 61 GCTGTAAAGCTTGAATCTGGGAGGAAAGCCCTACTAGATGAGATGGGCAAGATCGGT 120
 QY 394 GAGATTGCACTGGGCTCCCGGTCTCACTGAACTGGGACATGTCTCATAGAGATTTCA 453
 DB 121 GAGATTGCACTGGGCTCCCGGTCTCACTGAACTGGGACATGTCTCATAGAGATTTCA 180
 QY 454 AGTATCCCAAGAAAGCTCAAGAGAGCTTGAATTTAATAAATTTTCCCAAGAG 513
 DB 181 AGTATCCCAAGAAAGCTCAAGAGAGCTTGAATTTAATAAATTTTCCCAAGAG 240
 QY 514 ATTATCCATGAGCTGAGAGAGAGATGAACTTGAACGTGAATATATGAAAGCACTCTA 573
 DB 241 ATTATCCATGAGCTGAGAGAGAGATGAACTTGAACGTGAATATATGAAAGCACTCTA 300
 QY 574 AAAAGATACCAACAGAAACAGAAATTAATTAAGTCTTGGAGAAATCCAAAGCTGAG 633
 DB 301 AAAAGATACCAACAGAAACAGAAATTAATTAAGTCTTGGAGAAATCCAAAGCTGAG 360
 QY 634 TTGAGAAAGATCAGAAAGAAAGCCAGAGAAAGCCGCAATCTCAATTTGAACCAAA 693
 DB 361 TTGAGAAAGATCAGAAAGAAAGCCAGAGAAAGCCGCAATCTCAATTTGAACCAAA 420
 QY 694 GAAATGAGTATGAGAGAGCCGTTACTCTGTCAGAGTGAATTCAGAAATTCATTGCA 753
 DB 421 GAAATGAGTATGAGAGAGCCGTTACTCTGTCAGAGTGAATTCAGAAATTCATTGCA 480
 QY 754 GATGTTGCAAGAGCTTCTGTTGAAGAGAGAGCGCTTCTGTTCTGTTGATAG 813
 DB 481 GATGTTGCAAGAGCTTCTGTTGAAGAGAGAGCGCTTCTGTTCTGTTGATAG 540
 QY 814 CACTGAGCTTGGAAACCAATATTAATTAATCACTGAGTCAAGAACTAGTAAT 873
 DB 541 CACTGAGCTTGGAAACCAATATTAATTAATCACTGAGTCAAGAACTAGTAAT 600
 QY 874 TCCAGCTGCTGGTGGAGAGAGCTGTTGATGATCCATCAAAAGTCCAGAGAAATC 933
 DB 601 TCCAGCTGCTGGTGGAGAGAGCTGTTGATGATCCATCAAAAGTCCAGAGAAATC 660
 QY 934 ATGATATATGATCGAAGAAATTAAGAGCCCAAGCTCTACCCGCTGCTGGAATCTCTCAG 993
 DB 661 ATGATATATGATCGAAGAAATTAAGAGCCCAAGCTCTACCCGCTGCTGGAATCTCTCAG 720
 QY 994 GCTTCAACCCATGATCGAAGAGAGATGTTAGAGAAATTAATTAATCAAGCACTTCTTAA 1053
 DB 721 GCTTCAACCCATGATCGAAGAGAGATGTTAGAGAAATTAATTAATCAAGCACTTCTTAA 780
 QY 1054 TGCTCAACCAAGATGCCCCGCTCTTTCAGGAGAGATATACAGTCCCTTGATGAT 1113
 DB 781 TGCTCAACCAAGATGCCCCGCTCTTTCAGGAGAGATATACAGTCCCTTGATGAT 840
 QY 1114 ATGTTTAATAACCAAGAGAGAGCTGCCCCGAATTCACAAAGGTAATTAATTAATCAAGCT 1173
 DB 841 ATGTTTAATAACCAAGAGAGAGCTGCCCCGAATTCACAAAGGTAATTAATTAATCAAGCT 900
 QY 1174 ACTTCCGAAGATCCAGTTTACAGAGATGTTTGGTTGCAACGGGATCGAATCATGATG 1233
 DB 901 ACTTCCGAAGATCCAGTTTACAGAGATGTTTGGTTGCAACGGGATCGAATCATGATG 960
 QY 1234 AAGAAGCAAGAAAGTGAAGACATCTTCCGCACTGGGCTCCAAACAAGCTTTATCTC 1293
 DB 961 AAGAAGCAAGAAAGTGAAGACATCTTCCGCACTGGGCTCCAAACAAGCTTTATCTC 1020
 QY 1294 AGCTTTGCAAGAGAGATGTCATCAAGCTGCTCATCTCCCGAGAGAGAGATGGCTGCTC 1353
 DB 1021 AGCTTTGCAAGAGAGATGTCATCAAGCTGCTCATCTCCCGAGAGAGAGATGGCTGCTC 1080

QY 1354 TATGAGAACACAGAGTGTCCAAGGAGAGGGGTGGTTCCCGTGGTACAGAAAGTTG 1413
 DB 1081 TATGAGAACACAGAGTGTCCAAGGAGAGGGGTGGTTCCCGTGGTACAGAAAGTTG 1140
 QY 1414 CTGGAAGAAATATGAGACAGAAAGCAGTGAACCGTCCCAAGCCCAAGCCCAAGCTGAGA 1473
 DB 1141 CTGGAAGAAATATGAGACAGAAAGCAGTGAACCGTCCCAAGCCCAAGCCCAAGCTGAGA 1200
 QY 1474 AGCATACGACCCGTGAATCTTGTCTGAGATTAACAGTGTGTATCCCCCAAGCTGAC 1533
 DB 1201 AGCATACGACCCGTGAATCTTGTCTGAGATTAACAGTGTGTATCCCCCAAGCTGAC 1260
 QY 1534 TTGGAATGCTTGTCCATGGGGGACAGTCCGACAGAGAGAGATTCGGCCAGAGACAGA 1593
 DB 1261 TTGGAATGCTTGTCCATGGGGGACAGTCCGACAGAGAGAGATTCGGCCAGAGACAGA 1320
 QY 1594 TCCACCTTTAAGGCCCCAGCGTCCAGGCCGAGACCGCGGCTCTAAGATGCCAAGCGG 1653
 DB 1321 TCCACCTTTAAGGCCCCAGCGTCCAGGCCGAGACCGCGGCTCTAAGATGCCAAGCGG 1380
 QY 1654 ACTGCAAAAGCCGCTTTCTCAGCGGAGAAACCCCTTTGCCATGTAATCTCGGCCG 1713
 DB 1381 ACTGCAAAAGCCGCTTTCTCAGCGGAGAAACCCCTTTGCCATGTAATCTCGGCCG 1440
 QY 1714 ACTGACGAGATGATGCTCGGACCCATCATTCGATGA 1752
 DB 1441 ACTGACGAGATGATGCTCGGACCCATCATTCGATGA 1479
 RESULT 2
 AK004918 3245 bp mRNA linear HTC 03-APR-2004
 LOCUS
 DEFINITION
 Mus musculus adult male liver cDNA, RIKEN full-length enriched library, clone:1130006M19 product:INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE homolog [Homo sapiens], full insert sequence.
 ACCESSION
 AK004918
 VERSION
 AK004918.2 GI:26338407
 KEYWORDS
 HTC; CAP trapper.
 SOURCE
 Mus musculus (house mouse)
 ORGANISM
 Mus musculus
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE
 1. Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning
 Meth. Enzymol. 303, 19-44 (1999)
 2. 10349636
 3. Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
 Genome Res. 10 (10), 1617-1630 (2000)
 4. 11042159
 5. Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Kono, H., Akiyama, J., Nishi, K., Kitsuai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watanabe, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer
 Genome Res. 10 (11), 1757-1771 (2000)
 6. 11076861
 7. The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
 Functional annotation of a full-length mouse cDNA collection
 Nature 409, 685-690 (2001)

Db	1040	GACGCCGAGCCATCGCCCATGATCGAGAGACGAATGATTGGAGAAAGTTATGACAC	1059
Oy	1044	CCTTTCTMAATGCTCACAAAGATGCCCGCTCTTCAGGCAGAGCATATACAGTCC	1103
Db	1100	CCTTTCTMAATGCTCACAAAGATGCCCGCTCTTCAGTCAAAAGCCTACACAGTCC	1159
Oy	1104	CTTGAATGATATGTTTAAATAACCCAGCCAGCGCTGCCCGAAATTCAAAAGGTAATTA	1163
Db	1160	TTGATTTTACATGTTCAATTAACCAAGCTACAGCTGCACAGGTTTCAGAAAAACAACAA	1219
Oy	1164	TTCAACAG---GTACTTCCGAAGATCCCACTTTACAGCGATCAGTTTCGTTGGCAACGG	1220
Db	1220	CTCCACAGCAACAACCTGGGGGAAGATCCCAAGCTACAGGAATCGGTTTCTGTTGCACCTGG	1279
Oy	1221	ACTGAACATGATGAAGAGCTGAAGATGAACATCTTCCCGCACACTGGCGGCTCCAA	1280
Db	1280	GCTGAACATGATGAAGAGAGGATGAACATCTTCCCTCACACAGGCTGGCAACAA	1339
Oy	1281	CAAGACCTTACTCAGCTTTGACAGAGGAGATGTCATCAGCTGCTCATCCCGAGAGAA	1340
Db	1340	TAAAGACCTTACTCAGCTTTGACAGAGGAGATGTCATCAGCTGCTCATCCCGAGAGAA	1399
Oy	1341	GAATGCTGCTCTATGAGAAACAGACATGTCCTAAGGCGAGGGATTGTTCCGTCGTC	1400
Db	1400	GGACGCGCTGCTCTAAGGAGACATGACACCAACAAAGCGAGGCTGGTTCCATCGTC	1459
Oy	1401	GTACACGAAGTGGCTGGAAAGAAAATGAGACAGAAAGCAGTGAACCGGCCACGCCAACGCC	1460
Db	1460	ATATACAAAGTTGCTGGAAAGAAAAT-----GAAGCAATGTCCTCTTACACCAAGGCC	1513
Oy	1461	CACACCAATGAGAAAGCATCAGCACCGTGAACCTTGTCTGAAGATAGCAGTGTTCATCC	1520
Db	1514	TGACACCGGTGAGAAAGCATCAGCAGGTGACCTGACTGAAGAGAGCAGCTTGTTCATCC	1573
Oy	1521	CCCAACCGCATACTTGGAAATGCTGTTCATGCGGGGCACTGCCACAGAGAAGCAGATTCC	1580
Db	1574	ACCTCCCATACTTGGAGTCCGTTCATGGAGGCCACTTCACACAAAGAAAGCGGGCGC	1633
Oy	1581	GGCCAGG-----ACGACATCACCTTTAAGGCCCGCAGCGTCCAAAGCCCGA-----GAC	1628
Db	1634	TCCCAAGGTGCTTCTGCTTCTACTTTCAGAGCCGCACTGTCTCAGACCAAGCCCACTC	1693
Oy	1629	CGCGGCTCTTAACGATGCGAAGCGGACTGCAAGGCCGCTTTTCTCAGCGGAGAAAACC	1688
Db	1694	CACCTTCTCCAGCATGCGCAACGGGACCGCAAAACCGCATTCCTCAGTGAAGAAAACC	1753
Oy	1689	CTTTGGCATCTGTGAACCTCGCGCGGACGTGTGACGAATGATGCGTCGCGCACCATCATTCG	1748
Db	1754	CTTTGCCACGCTGAACCTCGCGCGCAACGTACCAATGACCGATGACACGATCATTCG	1813
Oy	1749	ATG-AGAGACAGCCAAAGACTCTCCCGGGCTCTCCGGTCTCCCTTGCAGAAATGATGG	1807
Db	1814	ATGAAGAATGACAGGGACAGTCCAGTCCCTCTACTCGAGTTCTCACCCACAGGCGATAG	1873
Oy	1808	GCGATCTGTCTGCGCAGTGTCTACCGTCCGGAAAGCTTCAGTGTGAAGGCTTAATCTTA	1867
Db	1874	GTATA-CATGCTGACAGCAGGACCTGTCAAAGTTGACAGATGCCCTGATGTCAATGA	1932
Oy	1868	ATGTCGCGCTGTAAAGCAAAATCATGCTCTCTGTTTCACTGATGTGGTTGACAAATTC	1927
Db	1933	GCCCCACTTGAAGCAAAATCATGTAATCTTCTCAGATTTGACAGAGGTGGTTTACATATTC	1992
Oy	1928	TGCTTTAAGTAATGATTAATGATCTAATGACAGCTCAGCCATTTAAATATTTTCT	1987
Db	1993	TGCTTTAAGTAATGATGAG---TAGCTTAAGTAATTAATCATCATTTGAAATATTTTCT	2049
Oy	1988	TCTATTTCTGTTCAGAAACAGTAAACTGTGTTCAATCTTTAAAAAAAAAAAAAAA	2047
Db	2050	T-----TCTATTTCAAAAGCAGTAATTTGGCTCAAAATTTTAAATTTTAAATTTTAAAG	2105
Oy	2048	AAAAAAAAAAAAA 2062	

Db	2106	AAATAGCCAGATTA	2120
RESULT 3			
AK008203		2214 bp	mRNA linear HTC 03-APR-2004
LOCUS			
DEFINITION			Mus musculus adult male small intestine cDNA, RIKEN full-length enriched library, clone:2010012017 product:INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE homolog [Homo sapiens], full insect sequence.
ACCESSION			
VERSION			AK008203.1 GI:12842246
KEYWORDS			HTC; CAP trapper.
SOURCE			Mus musculus (house mouse)
ORGANISM			Mus musculus
REFERENCE			Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS			
REFERENCE			
TITLE			Carninci, P. and Hayashizaki, Y. High-efficiency full-length cDNA cloning Meth. Enzymol. 303, 19-44 (1999)
JOURNAL			
PUBMED			10349636
AUTHORS			
REFERENCE			
TITLE			Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Komu, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes Genome Res. 10 (10), 1617-1630 (2000)
JOURNAL			
PUBMED			11042159
AUTHORS			
REFERENCE			
TITLE			Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Komu, H., Akiyama, J., Nishi, K., Kiteunai, T., Tashiro, H., Itoh, M., Suni, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsunoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Irawa, M., Ohara, E., Matsuki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y. RIKEN integrated sequence analysis (RISA) system-384-Format sequencing pipeline with 384 multicapillary sequencer Genome Res. 10 (11), 1757-1771 (2000)
JOURNAL			
PUBMED			11076861
AUTHORS			
REFERENCE			
TITLE			4 The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
JOURNAL			
PUBMED			
AUTHORS			
REFERENCE			
TITLE			5 Functional annotation of a full-length mouse cDNA collection Nature 409, 685-690 (2001)
JOURNAL			
PUBMED			
AUTHORS			
REFERENCE			
TITLE			6 The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team. Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs Nature 420, 563-573 (2002)
JOURNAL			
PUBMED			
AUTHORS			
REFERENCE			
TITLE			6 (bases 1 to 2214)
JOURNAL			
PUBMED			
AUTHORS			
REFERENCE			
TITLE			Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Arai, A., Aono, H., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanagaki, T., Hara, A., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Izawa, M., Kankawa, T., Kato, H., Kawai, J., Kojima, Y., Komu, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, Y., Shibata, K., Shibata, Y., Shingawa, A., Shiraki, T., Sugabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takehashi, F., Tanaka, T., Tejima, Y., Toyota, T., Yamamura, T., Yasunishi, A., Yoshida, K., Yoshino, M., Muramatsu, M., and Hayashizaki, Y.
JOURNAL			
PUBMED			
AUTHORS			
REFERENCE			
TITLE			Direct Submission
JOURNAL			
PUBMED			
AUTHORS			
REFERENCE			
TITLE			Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suita-cho, Tsunumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.jp, URL: http://genome.gsc.riken.jp/, Tel:81-45-503-9222,

Db 1491 AGTGCCTGTCATGAGGAGCCACCTCAGACAAAGAGGAGGCTCCCAAGTGCCTTCTG 1550

Qy 1592 CATCCACCTTTAAGGCCCGGCTCCAAAGCCGA-----GACGGGGCTCTTAAGATG 1645

Db 1551 CTCTACCTTCAGAGCGCCAGTGTCCAGACCAAGCCACATCACTCTCCAGGATG 1610

Qy 1646 CCAACGGGACTGCAAGAGCCGCTTTCTCAGCGAGAGAAACCCCTTGGCCACTGTGAAC 1705

Db 1611 CCAACGGGACCGGAAAGCCGCAATCTCTCAGTGAAGAAACCCCTTGGCCAGGTAAC 1670

Qy 1706 TCCGCCGAGCTGACGAAATGCTCTGGGACCCCATCTTCAATG-AGAGACAGCCAA 1764

Db 1671 TCCGGCCACAGTGAACAAATGACCGATCAGCCGATCATCCATGAAGATGAGGGAG 1730

Qy 1765 GAACTCTCCGGGCTCTCCGCTTCTCCCTTGGGAAATGATGGCGCATCTGTGCCA 1824

Db 1731 AGTGCAGTCTCTCTACTCTCAGATTCTCAGCCAGAGCCATAGTATA-CATTGCTGAC 1789

Qy 1825 CTGCTGACGCTGCGGAGCTTCAGTGAAGAGCCCTAATCTAATGTGCTGCTTAAGC 1884

Db 1790 AGCAGGCACTGTCAAGATTTGACAGAGTGCCTGATGCAATGAAGCCCACTTGAGCAAT 1849

Qy 1885 AATATCATCTTCTCTGTTTCACTGATGTTGGTTGACAACTTTCCTTTAAGTAAATG 1944

Db 1850 CAATGTACTTCTCAGATTGACAGAGGTGGTT-ACACATTTCTGCTTTAAGTAAATG 1908

Qy 1945 AGTAATAGTCTAATGACAGCTCAGCCATTAATAATTTTCTTCCATCTGTGACAGA 2004

Db 1909 AG--TAGCTTAGTGAATTAATCAATCATTTGAAATTTTCTT---TTCTATTCAAA 1961

Qy 2005 AACGTAACCTTGTTTCAATCTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAA 2062

Db 1962 AGCAGTAATTTGGCTCAAAATTTTAAATTTTAAATTTTAAAGAAATAGCCAGATTA 2019

RESULT 4
DQ051600 1479 bp DNA linear GSS 02-JUN-2005
LOCUS: Pan troglodytes LOC55971 gene, VIRUAL TRANSCRIPT, partial
DEFINITION: sequence, genomic survey sequence.
ACCESSION: DQ051600
VERSION: DQ051600.1 GI:66904814
KEYWORDS: GSS.
SOURCE: Pan troglodytes (chimpanzee)
ORGANISM: Pan troglodytes
Eukaryotes; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Pan.
REFERENCE: Nielsen, R., Bustamante, C., Clark, A.G., Glanowski, S., Sackton, T.B., Hubisz, M.J., Fledel-Alon, A., Tanenbaum, D.M., Civeille, D., White, T.J., Smirsky, J.J., Adams, M.D. and Cargill, M. A Scan for Positively Selected Genes in the Genomes of Humans and Chimpanzees (er) PLoS Biol. 3 (6), E170 (2005)
JOURNAL: PLoS Biol. 3 (6), E170 (2005)
PUBMED: 15869325
AUTHORS: Nielsen, R., Bustamante, C., Clark, A.G., Glanowski, S., Sackton, T.B., Hubisz, M.J., Fledel-Alon, A., Tanenbaum, D.M., Civeille, D., White, T.J., Smirsky, J.J., Adams, M.D. and Cargill, M.
TITLE: Direct Submission
COMMENT: Submitted (05-MAY-2005) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA
This sequence was made by sequencing genomic exons and ordering them based on alignment. Translation starts at the beginning of alignment.
FEATURES
source
1. 1479 Location/Qualifiers
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
<1..1479
/gene="LOC55971"

ORIGIN
/locus_tag="NC19618"

Query Match 45.3%; Score 950; DB 11; Length 1479;
Best Local Similarity 64.4%; Pred. No. 2,6e-183;
Matches 953; Conservative 0; Mismatches 526; Indels 0; Gaps 0;

Qy 274 ATGAACAGTTCATATCTGAGCTGCGAAATTTAATTAACCTGGGAAAAATTAAGAAA 333

Db 1 ATGAACATTTCAATCTTGGGCTGCGAAATTTAATTAACCTGGGAAAAATTAAGAAA 60

Qy 334 GCTGTAACGGCTATGATCTCTGCGAGAAAAGCTTACGATGAGTGGCAGATCGGT 393

Db 61 GCTGTAACGGNN 120

Qy 394 GAGATTGCCAGCTGGGTCCCGCTGCTCACTGAACTGCGACATGCTCTCTAGAGATTTCA 453

Db 121 NNN 180

Qy 454 AGTACCACAGAACTCAACGAGCTCTTGATGAATAATTTAATAAATTTCCAAAGAG 513

Db 181 AGTACCACAGAACTCAACGAGCTCTTGATGAATAATTTAATAAATTTCCAAAGAG 240

Qy 514 ATTATCCATGAGCTGGAAGAAAGATGAACCTTGACGTGAATATATGAACGCACTTA 573

Db 241 ATTATCCATGAGCTGGAAGAAAGATGAACCTTGACGTGAATATATGAACGCACTTA 300

Qy 574 AAAAGATCAAAACAGAACAAAGATAATTAATTAATTAATTAATTAATTAATTAATTA 633

Db 301 AAAAGATCAAAACAGAACAAAGATAATTAATTAATTAATTAATTAATTAATTAATTA 360

Qy 634 TTGAAGAGATCAGAAAGAAAGCCAAAGAGCCGAACGCACTCAATATGAACAA 693

Db 361 TTGAAGAGATCAGAAAGAAAGCCAAAGAGCCGAACGCACTCAATATGAACAA 420

Qy 694 GAAATGAGTATGAGAGACCGTTACTTCTCTGCAAGTGAATTCAGAAATTCATGCA 753

Db 421 GAAANN 480

Qy 754 GATGTTGCAAGAGGCTGCTGTTGAAGAAAGAGGCTTCTGCTTCTGTTGATAG 813

Db 481 GATGTTGCAAGAGGCTGCTGTTGAAGAAAGAGGCTTCTGCTTCTGTTGATAG 540

Qy 814 CACTGTGCTTTGCAACCAACATATTAATTAATTAATTAATTAATTAATTAATTAATTA 873

Db 541 CACTGTGCTTTGCAACCAACATATTAATTAATTAATTAATTAATTAATTAATTAATTA 600

Qy 874 TCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 933

Db 601 TCCNNNCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660

Qy 934 ATGAATATGATCGAAGAAATTAAGAGCCAGCTCTACCCCGCTGCTGGAATCTCTCAG 993

Db 661 ATGAATATGATCGAAGAAATTAAGAGCCAGCTCTACCCCGCTGCTGGAATCTCTCAG 720

Qy 994 GCTTCAACCAATGATGAGAGAGCAATGTGTTAGAAAGATTACAGACACCTTTCTAA 1053

Db 721 GCTTCAACCAATGATGAGAGAGCAATGTGTTAGAAAGATTACAGACACCTTTCTAA 780

Qy 1054 TGCTCAACCAAGATGCCCCCGCTCTTCAAGGAGCATATACAGTCCCTTGATGAT 1113

Db 781 TGCTCAACCAAGATGCCCCCGCTCTTCAAGGAGCATATACAGTCCCTTGATGAT 840

Qy 1114 ATGTTTAATTAACCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1173

Db 841 ATGTTTAATTAACCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900

Qy 1174 ACTTCCGAGATCCAGTTTACAGCATAGTTTCGTTCAACGGGACGGAACATGATG 1233

Db 901 NNN 960

Qy 1234 AAGAGAGAAAGTGAAGACATCTTCCGCACTGCGGGCTCAACAGACCTTAATC 1293

[illegible]

RESULT 5	LOCUS	DEFINITION
BUI53780	BUI53780	909 bp mRNA
ABENECOURT_7780106	NIH_MGC_67 Homo sapiens	linear EST 03-SEP-2002
5', mRNA sequence.		cdna clone IMAGE:6137888

VERSION	BU153780.1	GI:22667312
KEYWORDS	'EST.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1 (bases 1 to 909)	NIH-MGC	http://mgc.nci.nih.gov/	National Institutes of Health, Mammalian Gene Collection (MGC)	Unpublished (1999)
	Contact: Robert Strausberg, ph.D.			

FEATURES

source

```

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6137888"
/issue_type="retinoblastoma"
/lab_host="DH10B (phage-resistant)"
/clone_1b="N1H MGC 67"
/name="Organ: eye; Vector: pCMV-Sport6; Site:1
NotI;

```

ORIGIN

Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.75 kb. Library constructed by Life
Technologies."

Query Match	40.7%	Score 852.2;	DB 5;	Length 909;
Best Local Similarity	96.8%	Pred. No. 2.3e-163;		
Matches 880; Conservative	0;	Mismatches 28;	Indels 1;	Gaps 1;

QY	960	CCGAGCTCTACCCCGTGTCTGGAACTCTCAGGCTTCACCCATGATCGAGAGAA	1019
Db	1	CCACGGCTCGCCCAAGCGCTCCGCCACGCGTCCGCTTCACCCAAGATCGAGAGAA	60
QY	1020	TGTGTTAGGAAGAATTACGACACCCCTTCTTAATGCTCACCAAGATGCCCGCGCTC	1079
Db	61	TGTGGTTAGGAAGAATTAGACACCCCTTCTTAATGCTCACCAAGATGCCCGCGCTC	120
QY	1080	TTTCAGGCAAGCATATPACCAAGTCCCTTGATCGATATGTTTAAATACCCAGCCACGCGCTGC	1139
Db	121	TTTCAGGCAAGCATATPACCAAGTCCCTTGATCGATATGTTTAAATACCCAGCCACGCGCTGC	180
QY	1140	CCCGAATTACAAAGGGTAAATTAATTCAACAGGTACTTCCGAAGATCCCACTTTACACG	1199
Db	181	CCCGAATTACAAAGGGTAAATTAATTCAACAGGTACTTCCGAAGATCCCACTTTACACG	240
QY	1200	ATCAGTTTCGAGTTGCAAGCGGACTGAACATGATGAAGAAGAGAAGTGAAGACATCTT	1259
Db	241	ATCAGTTTCGAGTTTCGCAACGGGACTGMACATGATGAAGAAGAGAAGTGAAGACATCTT	300
QY	1260	CCCGCACACTGCGGGCTCCAAACAAGCTTACTCAGCTTTTGCACAGGAGATGTCAATCAC	1319
Db	301	CCCGCACACTGCGGGCTCCAAACAAGCTTACTCAGCTTTTGCACAGGAGATGTCAATCAC	360
QY	1320	GCTGTCTATCCCCCGAGAGAAAGATGAGTGGTGGCTCTATGAGAAACAAGCTGTCCAAAGC	1379
Db	361	GCTGTCTATCCCCCGAGAGAAAGATGAGTGGTGGCTCTATGAGAAACAAGCTGTCCAAAGC	420
QY	1380	GAGGGGTTGGTTCCTCGTGTGCTACGAAATGTCGTGGAAGAAATGAGACAGAGAGT	1439
Db	421	GAGGGGTTGGTTCCTCGTGTGCTACGAAATGTCGTGGAAGAAATGAGACAGAGAGT	480
QY	1440	GACCGTGCACACGCCAAGCCCCACACAGTGAAGATCAGCACCGTGAATTTGTCTGA	1499
Db	481	GACCGTGCACACGCCAAGCCCCACACAGTGAAGATCAGCACCGTGAATTTGTCTGA	540
QY	1500	GAATATGCAGTGTTGTCAATCCCCCAACCCGACTACTTGAATGCTTGTTCATGAGGAGCG	1559
Db	541	GAATATGCAGTGTTGTCAATCCCCCAACCCGACTACTTGAATGCTTGTTCATGAGGAGCG	600
QY	1560	TGCCGACAGAGACAGATTCGCGCAGAGAGACATCCACTTTAAGGCCCCACAGCTTCCAA	1619
Db	601	TGCCGACAGAGACAGATTCGCGCAGAGAGACATCCACTTTAAGGCCCCACAGCTTCCAA	660
QY	1620	GCCCGAGACCGCGGCTCCTAACATGTCAAACGGAATGCAAAAGCCGCTTTTCTCAGCGG	1679
Db	661	GCCCGAGACCGCGGCTCCTAACATGTCAAACGGAATGCAAAAGCCGCTTTTCTCAGCGG	720
QY	1680	AGAAAAACCCCTTTTGCACCTGTAATCTCCGCGCAGCTGTGACGATGATGCTCGGACCC	1739
Db	721	AGAAAAACCCCTTTTGCACCTGTAATCTCCGCGCAGCTGTGACGATGATGCTCGGACCC	780
QY	1740	CATCATTTGATGAGAGAGACAGCCACGAGACTCTCCCGGACTTCTCCGGTTCTCCCTTGCGG	1799
Db	781	CATCATTTGATGAGAGAGACAGCCACGAGACTCTCCCGGACTTCTCCGGTTCTCCCTTGCGG	840
QY	1800	AATGATGGGCGCATCTCTGTCTGCACAGTGC-TGACGGTCCGGAAGCTTCAAGTGAAGAGC	1858
Db	841	AATGATGGGCGCGTCTGTCTGCACAGTGC-TGACGGTCCGGAAGCTTCAAGTGAAGAGC	900
QY	1859	CTAACTCTTA 1867	
Db	901	CTAACTCTTA 909	

RESULT 6
 BUI84787 848 bp mRNA linear EST 04-SEP-2002
 LOCUS AGENCOURT 7825409 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:6093297
 DEFINITION 5', mRNA Sequence.
 BUI84787
 VERSION BUI84787.1 GI:22698771
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 REFERENCE 1 (bases 1 to 848)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.lnl.gov
 Plate: LLM13362 row: e column: 10
 High quality sequence stop: 710.
 Location/Qualifiers
 1..848
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:6093297"
 /tissue_type="epithelioid carcinoma"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_70"
 /note="Organ: pancreas; Vector: pCMV-Sport6; Site 1: NotI;
 Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 1.1 kb. Library constructed by Life
 Technologies."
 ORIGIN
 Query Match 39.6%; Score 830; DB 5; Length 848;
 Best Local Similarity 99.8%; Pred. No. 7.9e-159;
 Matches 841; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
 Oy 953 TAAAGACCCGACCTTACCCCGTGTGAGACTCTCCAGGCTTCAACCATGATCGAGA 1012
 |||||
 Db 1 TAAAGACCCGACCTTACCCCGTGTGAGACTCTCCAGGCTTCAACCATGATCGAGA 60
 Oy 1013 GAACCAATGTGTTAGGAAGATTACGACACCTTTCTAAATGCTCAACAAAGATGCCCC 1072
 |||||
 Db 61 GAACCAATGTGTTAGGAAGATTACGACACCTTTCTAAATGCTCAACAAAGATGCCCC 120
 Oy 1073 CCGCTCTTCAAGCAGACATATACAGTCCCTTGATGATATGTTTAATTAACCCAGCA 1112
 |||||
 Db 121 CCGCTCTTCAAGCAGCAGATATACAGTCCCTTGATGATATGTTTAATTAACCCAGCA 180
 Oy 1133 CGGCGCCCGCAATTCACAAAGGGTAATTAATTCACAGTACTTCCGAAGATCCAGTT 1192
 |||||
 Db 181 CGGCGCCCGCAATTCACAAAGGGTAATTAATTCACAGTACTTCCGAAGATCCAGTT 240
 Oy 1193 TACAGCGATCAATTCGTTGCAACGGAGCTGAACATGATGAAGAGCAAGAGTGAAGA 1252
 |||||
 Db 241 TACAGCGATCAATTCGTTGCAACGGAGCTGAACATGATGAAGAGCAAGAGTGAAGA 300
 Oy 1253 CCATTTTCCCGACACCTGCGGCTTCAACAGACCTTACTCAGCTTTCACAGGGAGATG 1312
 |||||
 Db 301 CCATTTTCCCGACACCTGCGGCTTCAACAGACCTTACTCAGCTTTCACAGGGAGATG 360
 Oy 1313 TCATCAGCGTCTCATCCCGAGAGAAAGATGCTGCTTATGAGAAACAGACGTGT 1372

Db 361 TCATCAGCGTCTCATCCCGAGAGAAAGATGCTGCTTATGAGAAACAGACGTGT 420
 Oy 1373 CCAAGGCGAGGGGTGTGTTCCCGTGTGTGACAGAAAGTGTGAAAGAAATGAGACAG 1432
 |||||
 Db 421 CCAAGGCGAGGGGTGTGTTCCCGTGTGTGACAGAAAGTGTGAAAGAAATGAGACAG 480
 Oy 1433 AAGCAGTACCGTGTGCAACGCCAGCCCAACCAACAGTGAAGAAATGACACCGTGAAT 1492
 |||||
 Db 481 AAGCAGTACCGTGTGCAACGCCAGCCCAACCAACAGTGAAGAAATGACACCGTGAAT 540
 Oy 1493 TGTCTGAGATATGCAAGTGTGTCATCCCGCCACCGGACTTGTGAATGCTTGTGCATGG 1552
 |||||
 Db 541 TGTCTGAGATATGCAAGTGTGTCATCCCGCCACCGGACTTGTGAATGCTTGTGCATGG 600
 Oy 1553 GGGCAGCTGCGCAGACGAGAGAGAGATTCGGCCAGACAGATCCACTTTAAGGCCCCAG 1612
 |||||
 Db 601 GGGCAGCTGCGCAGACGAGAGAGAGATTCGGCCAGACAGATCCACTTTAAGGCCCCAG 660
 Oy 1613 CGTCCAAAGCCGAGACCGCGGCTCTTAACGATGCCAAGCGAATGCAAGCGGCTTTTC 1672
 |||||
 Db 661 CGTCCAAAGCCGAGACCGCGGCTCTTAACGATGCCAAGCGAATGCAAGCGGCTTTTC 720
 Oy 1673 TCAGCGGAGAAAACCTTTTGGCACTGTGAATCTCCGCGGACTGTGAGAAATGATCGCT 1732
 |||||
 Db 721 TCAGCGGAGAAAACCTTTTGGCACTGTGAATCTCCGCGGACTGTGAGAAATGATCGCT 779
 Oy 1733 CGGACCCCATTCATTCATGAGAGAGACAGCAGCACTCCCGGCTCTCCGGTTCTCC 1792
 |||||
 Db 780 CGGACCCCATTCATTCATGAGAGAGACAGCAGCACTCCCGGCTCTCCGGTTCTCC 839
 Oy 1793 CTT 1795
 |||||
 Db 840 CTT 842
 RESULT 7
 BQ888698 895 bp mRNA linear EST 16-AUG-2002
 LOCUS AGENCOURT 8074718 NIH_MGC_110 Homo sapiens cDNA clone IMAGE:6086238
 DEFINITION 5', mRNA Sequence.
 BQ888698
 VERSION BQ888698.1 GI:22280712
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 REFERENCE 1 (bases 1 to 895)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Rubin Laboratory
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.lnl.gov
 Plate: LLM2320 row: o column: 07
 High quality sequence stop: 705.
 Location/Qualifiers
 1..895
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:6086238"
 /tissue_type="ductal carcinoma, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_110"

/note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCAACGG(G). Library constructed by
ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC library."

ORIGIN

```

Query Match      38.7%; Score 811.4; DB 5; Length 895;
Best Local Similarity 98.2%; Pred. No. 5e-155;
Matches 863; Conservative 0; Mismatches 11; Indels 5; Gaps 4;

QY 309 AAACCTGGGGAAAATTATGAGAAAGCTGTAAACGTATGATCTGGGAGAAAACCTTA 368
DB 4 AACCTGGGGAAAATTATGAGAAAGCTGTAAACGTATGATCTGGGAGAAAACCTTA 63
QY 369 CTACGATGAGTGGCCAAAGATCGGTGAGATTGCCACTGGGTCCCGGTCTCAACTGA 428
DB 64 CTACGATGAGTGGCCAAAGATCGGTGAGATTGCCACTGGGTCCCGGTCTCAACTGA 123
QY 429 GGGATATGCTTCATAGAGATTTCAGTCCCAAGAACTCAACGAGTCTTGATGA 488
DB 124 GGGATATGCTTCATAGAGATTTCAGTCCCAAGAACTCAACGAGTCTTGATGA 183
QY 489 AAATTTTAAAAAATTCACAAAGAGATTATCCATAGCTGGAGAGAAAGATGAAGCT 548
DB 184 AAATTTTAAAAAATTCACAAAGAGATTATCCATAGCTGGAGAGAAAGATGAAGCT 243
QY 549 CGTGAATATATGAAAGCACTTAAAAAGATACCAACAGAACTAAATTAATTGA 608
DB 244 CGTGAATATATGAAAGCACTTAAAAAGATACCAACAGAACTAAATTAATTGA 303
QY 609 GTCTTTGAGAAATCCCAAGCTGAGTTGAAGAGATCGAAGAGAAAGCCAGAGCCG 668
DB 304 GTCTTTGAGAAATCCCAAGCTGAGTTGAAGAGATCGAAGAGAAAGCCAGAGCCG 363
QY 669 AAACGACTCAAAATATGAAACAAAGAAATTGATGATGAGAGCCGTACTCTCCGCA 728
DB 364 AAACGACTCAAAATATGAAACAAAGAAATTGATGATGAGAGCCGTACTCTCCGCA 423
QY 729 GAGTGAATTCAGAAATTCATTGCAAGATGTTGCAAGAGGCTCTGTTGAAGAGAG 788
DB 424 GAGTGAATTCAGAAATTCATTGCAAGATGTTGCAAGAGGCTCTGTTGAAGAGAG 483
QY 789 GCGCTTCTGCTTTCTGTTGATTAAGCACTGGCTTTCGAAACCAATCAATTATCA 848
DB 484 GCGCTTCTGCTTTCTGTTGATTAAGCACTGGCTTTCGAAACCAATCAATTATCA 543
QY 849 CTTCAGCTGTCAGAACTACTGAATTCAGAGCTGCTGGTGAGAGAGACTGTTGTA 908
DB 544 CTTCAGCTGTCAGAACTACTGAATTCAGAGCTGCTGGTGAGAGAGACTGTTGTA 603
QY 909 TGCATCAAAAGTGCAGAGAAATCATGATATGATGAGAAATTAAGACCCAGCTC 968
DB 604 TGCATCAAAAGTGCAGAGAAATCATGATATGATGAGAAATTAAGACCCAGCTC 663
QY 969 TACCCCGGTGTGGAAGTCTCTCAGGCTTCAACCATGATGAGAGAAATGTGTTAG 1028
DB 664 TACCCCGGTGTGGAAGTCTCTCAGGCTTCAACCATGATGAGAGAAATGTGTTAG 723
QY 1029 GAAAGATTAGAGACACCTTTCTAAATGCTACCAAAATGCCCCCGCTCTTCAAGCA 1087
DB 724 GAAAGATTAGAGACACCTTTCTAAATGCTACCAAAATGCCCCCGCTCTTCAAGCA 783
QY 1088 GAGATATACAGTCCCTTATGATGATATGTTTAAT- AACCAGCAGGCTG- CCCCAG 1145
DB 784 GAGATATACAGTCCCTTATGATGATATGTTTAATTAACCAAGCAGGCTGCCCCAG 843
QY 1146 TTCAACAAGGTTAA--TAATCAACAGTACTTCCGA 1182
DB 844 ATCAACAGGAGAAATTAATCAACAGTACTTCCGA 882

```

RESULT 8
CA450094/C
LOCUS
DEFINITION
UI-CF-FNO-a1b-o-02-0-UI s1 UI-CF-FNO Homo sapiens cDNA clone
ACCESSION
CA450094.1 GI:24814514
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Homo.
1 (bases 1 to 814)
Bonaldo,M.F., Lennon,G. and Soares,M.B.
Normalization and subtraction: two approaches to facilitate gene
discovery
Genome Res. 6 (9), 791-806 (1996)
8889348

REFERENCE
AUTHORS
TITLE
JOURNAL
PIRMEID
COMMENT
Contact: McCray, PB
McCray Lab
University of Iowa
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4866
Fax: 319 356 7171
Email: paul-mccray@iowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa
cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com) or from Open Biosystems
(www.openbiosystems.com).
Seq primer: M13 FORWARD
POLYA=Yes.

FEATURES
source
Location/Qualifiers
1..814
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-CF-FNO-a1b-o-02-0-UI"
/issue_type="Human Lung Epithelial cells"
/lab_host="DH10B (Life Technologies) (TI phage resistant)"
/clone_1lb="UI-CF-FNO"
/note="Organ: Lung; Vector: pRTT3-Pac (Pharmacia) with a
modified polylinker; Site 1: EcoR I; Site 2: Not I;
UI-CF-FNO is a subtracted cDNA library derived from two
normalized Human lung epithelial cell libraries (EN1 and
DUI) The library was subtracted according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. For additional information, contact:
bento-soares@uiowa.edu
TAG TISSUE=Human Lung Epithelial Cell Lines untreated LPS
6hr to LPS 24h
TAG LIB=UI-CF-FNO
TAG_SEQ=CTGCTCAGGT"

ORIGIN

```

Query Match      38.3%; Score 803.4; DB 6; Length 814;
Best Local Similarity 99.1%; Pred. No. 2.1e-153;
Matches 807; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1239 GCAGAAAGTAGAACCATCTTCCGCACTGGGGCTCCACAGACTTACTACGCTT 1298
DB 814 GCAGAAAGTAGAACCATCTTCCGCACTGGGGCTCCACAGACTTACTACGCTT 755
QY 1299 TGACAGGGAGAGTATCAAGTGTCTCATCTCCGAGAGAAAGATGCGTGTATGG 1358
DB 754 TGACAGGGAGAGTATCAAGTGTCTCATCTCCGAGAGAAAGATGCGTGTATGG 695
QY 1359 AGAACAGAGAGTGTCCAGAGCGAGGGGTGTTCCGCTGCTGTACAGAAATTGCTGA 1418

```

[illegible]

http://image.llnl.gov
Plate: LLaM13362 row: 1 column: 18
High quality sequence stop: 651.

FEATURES	Location/Qualifiers
source	1. .877

```

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6093473"
/tissue_type="epithelioid carcinoma"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NH MGC 70"
/notes="Organ: pancreas; Vector: pCMV-Sport6; Site1: NotI; Site2: SalI; Cloned unidirectionally. Primer: Oligo dt. Average insert size 1.1 kb. Library constructed by Life Technologies."

```

ORIGIN

Query Match	37.9%	Score 794.8;	DB 5;	Length 877;
Best Local Similarity	97.8%	Pred. No. 1.2e-151;		
Matches 859; Conservative	0;	Mismatches 12;	Indels 7;	Gaps 5.

1118 TTAATTAACCGCCACGGCTGCCCGGAATTCACAAGGGTAAATTAATTCAACAGGTACTT 1177

Db 1 TTAATAACCCAGCCACGGCTGCCCCGGAATTCACAAGGGTAATAATTCAACAGTACTT 60

1178 CCGAAGATCCACAGTTTACAGCGATCAGTTTCGTTGCAACGGGACTGAACATGATGAAGA 1233

Db
61 CCGAGATCCGAGTTTACAGCGATCAGTTTCGTTGCAACGGGACTGAACATGATGAAGA 120

1238 AGCAGAAAGTGAAGACCATCTTCCGACACATGCGGGCTCAAACAAGACCTTACTCAGCT 129

Db 121 AGCAGAAAGTGAAGACCATCTTCCCGCACACTGGGGCTCAAACAAGACCTTACTCAGCT 180

1288 TTGCACAGGAGATGTCATCACCGTCTCATCCCCGAGAGAGAAGATGGCTGGCTTATG 135

181 TTGCACAGGAGATGTCATACGCTGCTCATCCCGAGAGAGATGGCTGCTTATG 240

1358 GAGAACACGACGTGTTCCAAAGCGAGGGTTGCTTCCCGTCGTCCGTACACGAAGTTGCTGG 1411

241 GAGAACACGAGCTGTCCAGGCGAGGGGTTGGTTCCTGCTGTACACGAAGTTGCTGG 300

1418 AAGAAATGAGCAGGAAGCAGTGAACGTTGCCACGCCAAGCCCCACACCACTGAGAGCA 1477

301 AAGAAATGAGACGAGAGCAGTCCGTCGCCACGCCAGCCCAACCAGTGAAGCA 360

1478 TACCCACCCCTGAACTTGTCTGAGAATAGCAAGTGTGCATCCCCCAACCGACTACTTGG 153

[illegible]

DB 301ACAGCACCCTGATGACCAATGTCATGCGTGGTTCCGACGACGACATGCCA 159

1538 AAATGCCTGGCGGAGCAGCAACGTTTCCGTCGAGGACGATCCCA 480

421 AAATCCTGGTTCACGCGAGTTG 165

CCCTTAAAGCCCCCAACGATCGAAGCCTCCAGAACCTCCCTTCCTTAACGGATAAGAGGCAGAGTGTGTTTCTG
540

[illegible]

1658 CAAAGCCGCGCTTCTCAGCCGGAAAAACCCCTTGGCCACGAGAGAACACCCGCCCCACAC 172

D5 541 CAAAGCCGCGCTTTCTCAGCGGAGAAACCCCTTGGCACATGAGATTCGCGCCGACATG 800

1718 TGACGATGATCGCTCGGACCACCATCATTCGATGAGAGGACAGCAAGACCTCCCGG 1719

Db 601 TGACGATGATCGCTCGGCACCCCATCATTCGATGAGAGGACAGCAGGACTCTCCGGG 660

1778 CCTCTCCGGTTCCTCCCTTGGGAATGATGGGCGCATCTGTCTGCACAGTGTGACGGTC 183

Db 661 CCTCTCCGGTTCCTCCCTGCGAATGATGGGCGCATCTGTCTGCCA-GTGTGACGGTC 719

1838 GGGAAGCTTCAGTGGAGAGGCCCTAACTTAATGTCCCTGCTTACGAATCATGCTTCT 189

Db 720 GGAGGCTTCAGTGAGAGGCTTACTTAATGTCGCTTAAGC AATCATGCTTCT 778

QY 1898 CTGTTTAC--GTAGTTGGGTGACAGTTT--CTGCTTAAAGTAATGAGT-AATAG 1952
 Db 779 CTGTTTCCCCGTAATTGGGGTTTACCACTTTTCTGCTTTTAAAGTAATGAGTAATAG 838
 QY 1953 TCTAATGACCACTGACGCACTTTAAATATTTTCTTC 1990
 Db 839 TCTAATGACCACTGACGCACTTTAAATATTTTCTTC 876

RESULT 10
 BO688252 916 bp mRNA linear EST 15-JUL-2002
 LOCUS AGENCOURT 8034808 NIH_MGC_110 Homo sapiens cDNA clone IMAGE:6207009
 DEFINITION 5', mRNA sequence.
 ACCESSION BO688252
 VERSION BO688252.1 GI:21813568
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 916)
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Place: LNC2362 row: 9 column: 10
 High quality sequence stop: 673.
 Location/Qualifiers
 1..916
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:6207009"
 /tissue="type="ductal carcinoma, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_110"
 /note="Organ: pancreas; Vector: pOTB7; Site: 1: XhoI;
 Site: 2: EcoRI; cDNA made by oligo-dT priming.
 directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Library constructed by
 Ling Hong in the laboratory of Gerald M. Rubin (University
 of California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC Library."

ORIGIN
 Query Match 37.8%; Score 792.2; DB 5; Length 916;
 Best Local Similarity 99.6%; Pred. No. 4.2e-151;
 Matches 794; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 308 TAAACCTGGGGGAAAAATTATGAGAAAGCTGTAAAGCTATGATCTGGCAGAGAAAGCT 367
 Db 1 TAAACCTGGGGGAAAAATTATGAGAAAGCTGTAAAGCTATGATCTGGCAGAGAAAGCT 60
 QY 368 ACTGAGATGAGTGGCCAGATCGGTGATTTGCCACTGGGTCCTCCGCTGCTCACTGAC 427
 Db 61 ACTGAGATGAGTGGCCAGATCGGTGATTTGCCACTGGGTCCTCCGCTGCTCACTGAC 120
 QY 428 TGGGACATGTCCTCATAGAGATTTCAGTACCAAGAAACTCAAGAGAGCTTTGATG 487
 Db 121 TGGGACATGTCCTCATAGAGATTTCAGTACCAAGAAACTCAAGAGAGCTTTGATG 180

QY 488 AAAATTTAAAAAATTCAGAAAGAGATTATCCATGAGCTGAGAGAAAGATGAACTTG 547
 Db 181 AAAATTTAAAAAATTCAGAAAGAGATTATCCATGAGCTGAGAGAAAGATGAACTTG 240
 QY 548 AGGTAAATATATGAAAGCAAGCTCTTAAAAAGATACCAAGACAGAAACAAAGATTAATAG 607
 Db 241 AGGTAAATATATGAAAGCAAGCTCTTAAAAAGATACCAAGACAGAAACAAAGATTAATAG 300
 QY 608 AGCTTTGGAGAAATCCCAAGCTGAGTTGAGAAAGATCAAGAGAAAGCAAGAGAGCC 667
 Db 301 AGCTTTGGAGAAATCCCAAGCTGAGTTGAGAAAGATCAAGAGAAAGCAAGAGAGCC 360
 QY 668 GAAAGCACTCAATATGAAACAAGAAAGATGAGATGAGAGACGTTACTTCTGCTG 727
 Db 361 GAAAGCACTCAATATGAAACAAGAAAGATGAGATGAGAGACGTTACTTCTGCTG 420
 QY 728 AGAGTGAATTCAGAAATTCATTCAGATGATGTCAGAAAGAGCTGCTTGAAGAGAGA 787
 Db 421 AGAGTGAATTCAGAAATTCATTCAGATGATGTCAGAAAGAGCTGCTTGAAGAGAGA 480
 QY 788 GCGGCTTCTGCTTTCTGTTGATTAAGCACTGCTGCTTCAAAACCATATATTATTC 847
 Db 481 GCGGCTTCTGCTTTCTGTTGATTAAGCACTGCTGCTTCAAAACCATATATTATTC 540
 QY 848 ACTTACAGTCTGAGAACTACTGAAATTCAGAGCTGCTGCTGAGAGAGAGCTGCTG 907
 Db 541 ACTTACAGTCTGAGAACTACTGAAATTCAGAGCTGCTGCTGAGAGAGAGCTGCTG 600
 QY 908 ATGCATCAAAAGTGCAGAGAAATTCATGATATGATGAGAAATTAAGAGCCAGCT 967
 Db 601 ATGCATCAAAAGTGCAGAGAAATTCATGATATGATGAGAAATTAAGAGCCAGCT 660
 QY 968 CTACCCCGCTGCTGAGAACTCTCAAGCTTCAACCATATTCAGAGAGAGATGCTTGA 1027
 Db 661 CTACCCCGCTGCTGAGAACTCTCAAGCTTCAACCATATTCAGAGAGAGATGCTTGA 720
 QY 1028 GGAAGATTACGACACCCCTTTCTAATGCTCAACCAAGATGCCCCGCTCTTACAGCA 1087
 Db 721 GGAAGATTACGACACCCCTTTCTAATGCTCAACCAAGATGCCCCGCTCTTACAGCA 780
 QY 1088 GAGCATATACCAAGTCCC 1104
 Db 781 GAGCATATACCAAGTCCC 797

RESULT 11
 BI333892 812 bp mRNA linear EST 30-JUL-2001
 LOCUS 602999431P1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:5141574 5',
 DEFINITION mRNA sequence.
 ACCESSION BI333892
 VERSION BI333892.1 GI:15018549
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 812)
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: Incyte Genomics, Inc.
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: L1AM11348 row: n column: 07
 High quality sequence stop: 812.

FEATURES
SOURCE

Location/Qualifiers
1. 812
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5141574"
/tissue_type="cervical carcinoma cell line"
/lab_host="DH10B"
/clone_lib="NH_MGC_12"
/note="Organ: cervix; Vector: pCMV-Sport6; Site: 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.4 kb. Library prepared by Life
Technologies."

ORIGIN

Query Match 37.0%; Score 775.2; DB 3; Length 812;
Best Local Similarity 99.4%; Pred. No. 1.2e-147;

Matches 799; Conservative 0; Mismatches 3; Indels 2; Gaps 2;

```

OY 709 GAGACCGTACTTCTCGTCAGAGTGAATCCAGAAATTCATTGCGATGGTTGCAAGG 768
DB 1 GAGACCGTACTTCTCGTCAGAGTGAATCCAGAAATTCATTGCGATGGTTGCAAGG 60
OY 769 GCTCTGTTGAGAGAGAGGCGCTTCTGCTTCTGTTGATMACACTGTGGCTTGA 828
DB 61 GCTCTGTTGAGAGAGAGGCGCTTCTGCTTCTGTTGATMACACTGTGGCTTGA 120
OY 829 AACCATATCATTTATATCATCTTAACAGTGTGAGAACTACTGATTTCCAGCTGCTGG 888
DB 121 AACCATATCATTTATATCATCTTAACAGTGTGAGAACTACTGATTTCCAGCTGCTGG 180
OY 889 TGGCAGAGAGAGCTGTGTTGATGCGCATCAAGTGGCCAGAGAAATCATGAAATGATCGAA 948
DB 191 TGGCAGAGAGAGCTGTGTTGATGCGCATCAAGTGGCCAGAGAAATCATGAAATGATCGAA 240
OY 949 GAAATTAAGACCCAGCCTCTACCCCGCTGTCTGAAACTCTCAGGCTTCAACCATGATC 1008
DB 241 GAAATTAAGACCCAGCCTCTACCCCGCTGTCTGAAACTCTCAGGCTTCAACCATGATC 300
OY 1009 GAGAGAGCATGTGTTGAGAAAGATTACGACACCTTTCTTAATGCTCACCAGAAAGT 1068
DB 301 GAGAGAGCATGTGTTGAGAAAGATTACGACACCTTTCTTAATGCTCACCAGAAAGT 360
OY 1069 CCCCCCGCTCTTCAGGAGAGCATATACAGTCCCTTATGATGTTTATAACCA 1128
DB 361 CCCCCCGCTCTTCAGGAGAGCATATACAGTCCCTTATGATGTTTATAACCA 420
OY 1129 GCCACGGCTGCCCGAATTCAGAAAGGTTAAATTCAACAGGTACTTCCGAAGTCCC 1188
DB 421 GCCACGGCTGCCCGAATTCAGAAAGGTTAAATTCAACAGGTACTTCCGAAGTCCC 480
OY 1189 AGTTTACAGCATCACTTTCGTTGCGTTCAGAGGAGTGAATGTAAGAAAGCAAGAGT 1248
DB 481 AGTTTACAGCATCACTTTCGTTGCGTTCAGAGGAGTGAATGTAAGAAAGCAAGAGT 540
OY 1249 AAGACATCTTCCCGAGCACTGCGGGCTCCAAAGACCTTACTCAGCTTTTGACAGGGA 1308
DB 541 AAGACATCTTCCCGAGCACTGCGGGCTCCAAAGACCTTACTCAGCTTTTGACAGGGA 600
OY 1309 GATGTATCATCGCTGCTCATCCCGAGAGAGAAAGATGGCTGCTTATGAGAAACGAC 1368
DB 601 GATGTATCATCGCTGCTCATCCCGAGAGAGAAAGATGGCTGCTTATGAGAAACGAC 660
OY 1369 GTGTCCAAAGCGAGGGGTGTGTTCCCGTGTCTTACCAAGTGTCTGAAAGAAATGAG 1428
DB 661 GTGTCCAAAGCGAGGGGTGTGTTCCCGTGTCTTACCAAGTGTCTGAAAGAAATGAG 720
OY 1429 ACAGAGACAGTGAACGTGCCAGCAAGCCCAACAGTGAAGAGCAT-CAGCACCGT 1487
DB 721 ACAGAGACAGTGAACGTGCCAGCAAGCCCAACAGTGAAGAGCAT-CAGCACCGT 779
OY 1488 GAACTTGTCTGAGATATGACAGTGT 1511

```

DB 780 GAACTTGTCTGAGATATGACAGGTT 803

RESULT 12
BM981661/c 779 bp mRNA linear EST 21-FEB-2003
LOCUS
DEFINITION
UI-CF-EN1-adi-m-10-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
UI-CF-EN1-adi-m-10-0-UI.3', mRNA sequence.
ACCESSION
BM981661
VERSION
BM981661.1 GI:19604378
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.

REFERENCE
AUTHORS
TITLE
JOURNAL
PUBMED
COMMENT
Contact: McCray, PB
McCray Lab
University of Iowa
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4866
Fax: 319 356 7171
Email: paul-mccray@uiowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.research.com) or from Open Biosystems
(www.openbiosystems.com).
The following repetitive elements were found in this cDNA
sequence: 1-21, >AT rich#low_complexity
Seq primer: M13 FORWARD
POLYA=Yes.

FEATURES
SOURCE

Location/Qualifiers
1. 779
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-CF-EN1-adi-m-10-0-UI"
/tissue_type="Primary Lung Cystic Fibrosis Epithelial
Cells"
/dev_stage="Adult"
/lab_host="DH10B (Life Technologies) (T1 phase resistant)"
/clone_lib="UI-CF-EN1"
/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
modified polylinker; Site 1: EcoR I; Site 2: Not I;
UI-CF-EN1 is a normalized cDNA library containing the
following tissue(s): Primary Lung Cystic Fibrosis
Epithelial Cells. The library was constructed according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. First strand cDNA synthesis was primed with an
oligo-dt primer containing a Not I site. Double stranded
cDNA was ligated to an EcoR I adaptor, digested with Not
I, and cloned directionally into pT7T3-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dt)18 tail. The
sequence tag for this library is CTGCTCAGGT.
TAG TISSUE=Human Lung Epithelial Cell Lines untreated LPS
6hr to LPS 24h
TAG_LIB=UI-CF-EN1
TAG_SEQ=CTGCTCAGGT"

ORIGIN

Query Match 36.7%; Score 768.4; DB 3; Length 779;
Best Local Similarity 99.1%; Pred. No. 3e-146;

Matches	772;	Conservative	0;	Mismatches	7;	Indels	0;	Gaps	0;
Qy	1269	TCGGGCTCCAAAGACCTTCTGAGCTTTGACGGAGAGATGATACGCTGCTCAT	1328						
Db	779	TGCGGCTCCAAAGACCTTCTGAGCTTTGACGGAGAGATGATACGCTGCTCAT	720						
Qy	1329	CCCCGAGGAAGATGCTGCTCTATGAGAACAGAGCTGTCCAGGGAGGGTTG	1388						
Db	719	CCCCGAGGAAGATGCTGCTCTATGAGAACAGAGCTGTCCAGGGAGGGTTG	660						
Qy	1389	GTTCCCTGTGTGTATACGAAATGTTGTGAAGAAAATGAGACAGACAGTACCGTGCC	1448						
Db	659	GTTCCCTGTGTGTATACGAAATGTTGTGAAGAAAATGAGACAGACAGTACCGTGCC	600						
Qy	1449	CACGCCAAGCCCCCAACAGCAGTGAAGACATGACACCGGAACTTGTCTGAAGATACAG	1508						
Db	599	CACGCCAAGCCCCCAACAGCAGTGAAGACATGACACCGGAACTTGTCTGAAGATACAG	540						
Qy	1509	TGTTGTCAATCCCCCAACCGGACTTGTGAATGCTTGTTCATGAGGGGAGCTGCCAGAG	1568						
Db	539	TGTTGTCAATCCCCCAACCGGACTTGTGAATGCTTGTTCATGAGGGGAGCTGCCAGAG	480						
Qy	1569	GAGACCAATTTGGCCAGAGACATCCACCTTTAAGGCCCCAGCGTCCAGCCGAGAGC	1628						
Db	479	GAGACCAATTTGGCCAGAGACATCCACCTTTAAGGCCCCAGCGTCCAGCCGAGAGC	420						
Qy	1629	CGCGGCTCTTAACAGATGCGCAAGGGAGTGAAGAGCGGCTTTCTCACCGGAGAAACCC	1688						
Db	419	CGCGGCTCTTAACAGATGCGCAAGGGAGTGAAGAGCGGCTTTCTCACCGGAGAAACCC	360						
Qy	1689	CTTTGCCACTGTGAACCTCGGCCGACATGTGACGAAATGATGCTCGGACCATCATTCG	1748						
Db	359	CTTTGCCACTGTGAACCTCGGCCGACATGTGACGAAATGATGCTCGGACCATCATTCG	300						
Qy	1749	ATGAGAGACAGCCAGAGACTCTCCCGGCTCTCCGCTTCTCCCTTGGAGATGATGGG	1808						
Db	299	ATGAGAGACAGCCAGAGACTCTCCCGGCTCTCCGCTTCTCCCTTGGAGATGATGGG	240						
Qy	1809	CGCATCTCTGTGCGACGTCGTCGACGGGAGGCTTCACTGAGAGAGGCTTAACTCTAA	1868						
Db	239	CGCATCTCTGTGCGACGTCGTCGACGGGAGGCTTCACTGAGAGAGGCTTAACTCTAA	180						
Qy	1869	TGTGCGCTGTTAAGCAATGCTTCTGTTTCAAGTATGGGTTGAAGATTCT	1928						
Db	179	TGTGCGCTGTTAAGCAATGCTTCTGTTTCAAGTATGGGTTGAAGATTCT	120						
Qy	1929	GCCTTAAAGTAATGATATAGCTTAATGACAGCTCAGCCATTAAATATTTCTT	1988						
Db	119	GCCTTAAAGTAATGATATAGCTTAATGACAGCTCAGCCATTAAATATTTCTT	60						
Qy	1989	CTTATCTGTTCAGAAACAGTAACTGTTTCAATCTTAAAAAAAAAAAAAAA	2047						
Db	59	CTTATCTGTTCAGAAACAGTAACTGTTTCAATCTTAAAAAAAAAAAAAAA	1						

RESULT 13
 BUS00695 943 bp mRNA linear EST 12-SEP-2002
 LOCUS AGENCOURT_7860835 NIH_MGC_64 Homo sapiens cDNA clone IMAGE:6109543
 DEFINITION 5', mRNA sequence.
 ACCESSION BUS00695
 VERSION BUS00695.1 GI:22802021
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 943)
 NIH-MGC http://mgi.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.

Qy	1151	AAAGGTAATTAATTCACACAGT-ACCTCCGAGATCCAGTTTACAGGATCAGTTTCG	1209						
Db	17	AAAGGTAATTAATTCACACAGT-ACCTCCGAGATCCAGTTTACAGGATCAGTTTCG	76						
Qy	1210	GTTCAACGGGACATGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	1269						
Db	77	GTTCAACGGGACATGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	136						
Qy	1270	GGGGCTCCACAGACCTTCTCAGCTTTCACAGGAGATGATCAGCTGCTCATC	1329						
Db	137	GGGGCTCCACAGACCTTCTCAGCTTTCACAGGAGATGATCAGCTGCTCATC	196						
Qy	1330	CCGAGAGAGAGATGCTGCTCTATGAGAGACAGAGCTGTCCAGGCGAGGGGTTGG	1389						
Db	197	CCGAGAGAGAGATGCTGCTCTATGAGAGACAGAGCTGTCCAGGCGAGGGGTTGG	256						
Qy	1390	TTCCTGTCTGACAGAACTGCTGAGAGAAATGAGACAGAGAGAGAGAGAGAGAG	1449						
Db	257	TTCCTGTCTGACAGAACTGCTGAGAGAAATGAGACAGAGAGAGAGAGAGAGAG	316						
Qy	1450	ACGCCAAGCCCCACAGAGTGAAGATCAGACCGTTGAACCTTGTCTGAGATATGACAT	1509						
Db	317	ACGCCAAGCCCCACAGAGTGAAGATCAGACCGTTGAACCTTGTCTGAGATATGACAT	376						
Qy	1510	GTTGTCA-TCCCCCACCACCTACTTGAATGCTTGT-CCATGGGGGAGAGCTGCCGA	1565						
Db	377	GTTGTCA-TCCCCCACCACCTACTTGAATGCTTGT-CCATGGGGGAGAGCTGCCGA	436						
Qy	1566	CAGAGAGAGATTTGGCCAGAGAGCA-TCCACCTTTAAGGCCCGCAGCTCAAGCCCG	1624						
Db	437	CAGAGAGAGATTTGGCCAGAGAGCA-TCCACCTTTAAGGCCCGCAGCTCAAGCCCG	496						
Qy	1625	AG-ACCGGGCTCTTAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	1681						
Db	497	AG	556						
Qy	1682	AAAGCCCTTTGCACTGTGAAC-TCCGCCGAGCTGTGAAGATGCTGCGGACCC	1740						
Db	557	AAAGCCCTTTGCACTGTGAAC-TCCGCCGAGCTGTGAAGATGCTGCGGACCC	616						
Qy	1741	A-TCAATTCATGAG	1799						
Db	617	ATTCAATTCATGAG	676						

Query Match Best Local Similarity 36.4%; Score 762.6; DB 5; Length 943; Matches 865; Conservative 0; Mismatches 32; Indels 11; Gaps 8;

FEATURES source

Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: NIMH/LOG
 DNA Sequencing by: The I.M.A.G.E. Consortium (LNL)
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://imgc.llnl.gov
 Place: LNC2355 row: 3 column: 08
 High quality sequence start: 43
 High quality sequence stop: 453.
 Location/Qualifiers
 1..943
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:6109543"
 /lab_host="DH10B (phage-resistant)"
 /clone_id="NIH_MGC_64"
 /note="Vector: pOTB7a; Site_1: CeuI; Site_2: SmaI; This
 library is a size selection of NIH_MGC_35, from 3.0-4.5
 kb. Size selection done at the National Institute of
 Mental Health, NIH. Note: this is a NIH_MGC Library."

QY 1800 AATGATGGGCGCATCTCTGTTCGACGTCGTGACGGTGGGAGCTTCACTGAGAGGCC 1859
 DB 677 AATGATGGGCGCGCTCTGTCTGACGTCGTGACGGTGGGAGCTTCACTGAGAGGCC 736
 QY 1860 TAACCTAATGTCGCGCTGTTAAGCAAAATCATGCTTCTGTTCACGTAAGTGGGTTGA 1919
 DB 737 TAACCTAATGTCGCGCTGTTAAGCAAAATCATGCTTCTGTTCACGTAAGTGGGTTGA 796
 QY 1920 CAAGTTTCTGCTTAAGATTAATGATTAATGCTTAATGACCACTGACCTATTAAA 1979
 DB 797 CAAGTTTCTGCTTAAGATTAATGATTAATGCTTAATGACCACTGACCTATTAAA 856
 QY 1980 TATTTTCTTCTTCTGCTTCAAGAACAGTAACTTGTTCAATCTTAAAAAAA 2039
 DB 857 TATTTTCTTCTTCTGCTTCAAGAACAGTAACTTGTTCAATCTTAAAAAAA 916
 QY 2040 AAAAAAA 2047
 DB 917 NNNNNAAA 924
 RESULT 14
 LOCUS B1335025 996 bp mRNA linear EST 30-JUL-2001
 DEFINITION 602999031P1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:5141190 5',
 mRNA sequence.
 ACCESSION B1335025
 VERSION B1335025.1 GI:15019682
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 REFERENCE 1 (bases 1 to 996)
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaapb-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/BLNI at:
 http://image.llnl.gov
 Plate: L14M1347 row: n column: 07
 High quality sequence stop: 827.
 Location/Qualifiers
 source 1..996
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5141190"
 /tissue_type="cervical carcinoma cell line"
 /lab_host="DH10B"
 /clone_lib="NIH_MGC_12"
 /note="Organ: cervix; Vector: pCMV-SPORT6; Site 1: NciI;
 Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
 Average insert size 1.4 kb. Library prepared by Life
 Technologies."
 ORIGIN
 Query Match 36.3%; Score 760.4; DB 3; Length 996;
 Best Local Similarity 96.5%; Pred. No. 1.3e-144;
 Matches 853; Conservative 0; Mismatches 21; Indels 10; Gaps 7;
 QY 708 GGAGACCGTTACTCTCCGTCAGAGTAATCAAGAAATCATTCGATGTTGCAAGA 767
 DB 1 GGAGACCGTTACTCTCCGTCAGAGTAATCAAGAAATCATTCGATGTTGCAAGA 60
 QY 768 GGCTGTGTTGAAGAAGAGCGCTTGTCTTGTGTTGATTAAGCACTGTGGCTTTC 827

DB 61 GGCTGTGTTGAAGAAGAGCGCTTGTCTTGTGTTGATTAAGCACTGTGGCTTTC 120
 QY 828 AAACCACTATCACTTATTAATCACTTACAGCTGACAGAACTAGTAATCCAGTGCCTG 887
 DB 121 AAACCACTATCACTTATTAATCACTTACAGCTGACAGAACTAGTAATCCAGTGCCTG 180
 QY 888 GTGGCAGAGACCTGTGTTGATGCTCAATCAAGTGGCCAGAAATCATGATATGATCA 947
 DB 181 GTGGCAGAGACCTGTGTTGATGCTCAATCAAGTGGCCAGAAATCATGATATGATCA 240
 QY 948 AGAATTAAGACCCAGCTCTACCCCGTGTGGAATCTCCAGGCTTACCCAGTAT 1007
 DB 241 AGAATTAAGACCCAGCTCTACCCCGTGTGGAATCTCCAGGCTTACCCAGTAT 300
 QY 1008 CGAGAGAGCAATGTGTTAGGAAGATTACGACACCTTTCTTAATGTCTACCAAGAT 1067
 DB 301 CGAGAGAGCAATGTGTTAGGAAGATTACGACACCTTTCTTAATGTCTACCAAGAT 360
 QY 1068 GCCCGCCGCTCTTACAGGAGACATATACAGTCCCTTGATGATATGTTAATACCC 1127
 DB 361 GCCCGCCGCTCTTACAGGAGACATATACAGTCCCTTGATGATATGTTAATACCC 420
 QY 1128 AGCCACGCTG-CCCCGATTCACAAAGGTAATTAATCAAGGATCTTCGAAAGATC 1186
 DB 421 AGCCACGCTGCCCCGATTCACAAAGGTAATTAATCAAGGATCTTCGAAAGATC 480
 QY 1187 CCAGTTTACAGCANTACATTCGTTGCAACGGGACTGAACATGATGAGAGAGAG 1246
 DB 481 CCAGTTTACAGCANTACATTCGTTGCAACGGGACTGAACATGATGAGAGAGAG 540
 QY 1247 TGAAGACCATCTTCCGACACATGCGGCTTCACAAAGCTTAATCTAGCTTTCACAG 1306
 DB 541 TGAAGACCATCTTCCGACACATGCGGCTTCACAAAGCTTAATCTAGCTTTCACAG 600
 QY 1307 GAGATTCATACAGCTGCTCATCCCGAGAGAGAGATGCTGCTTATGAGAGACAG 1366
 DB 601 GAGATTCATACAGCTGCTCATCCCGAGAGAGAGATGCTGCTTATGAGAGACAG 660
 QY 1367 ACCGTGTCAGAGGAGGTTGTT-CCCTGCTGTACAGAGTTGCTGAGAGAAAT 1425
 DB 661 ACCGTGTCAGAGGAGGTTGTT-CCCTGCTGTACAGAGTTGCTGAGAGAAAT 720
 QY 1426 GAGA-CAGAGACATGACCGTCCACG--CAAAGCCACACATGAGAGAGATCAGC 1482
 DB 721 GAGA-CAGAGACATGACCGTCCACG--CAAAGCCACACATGAGAGAGATCAGC 780
 QY 1483 ACCGTGAATGTTGTGAGATGAGATGCTGATCCCGACCGACTACTTGAATGC 1542
 DB 781 ACCGTGAATGTTGTGAGATGAGATGCTGATCCCGACCGACTACTTGAATGC 837
 QY 1543 TTGTCCATGGGGGAGCTGCCGAGAGAGAGACATTCGAGCAG 1586
 DB 838 TTGT-CATGGGGGAGCTGCCGAGAGAGAGACATTCGAGCAG 879
 RESULT 15
 LOCUS BG761459 933 bp mRNA linear EST 15-MAY-2001
 DEFINITION 602718666P1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4858696 5',
 mRNA sequence.
 ACCESSION BG761459
 VERSION BG761459.1 GI:14072112
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 REFERENCE 1 (bases 1 to 933)
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)

COMMENT

Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC/DCID/DRP
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1CM1713 row: c column: 17
High quality sequence stop: 851.

FEATURES

source

Location/Qualifiers
1. 933
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4858696"
/issue_type="melanotic melanoma, high MDR (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_1ib="NIH MGC 49"
/note="Organ: skin; Vector: pORF7; Site 1: XhoI; Site 2:
EcoRI; CDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGAG(G). Size-selected >500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory
of Gerald M. Rubin (University of California, Berkeley)
using ZAP-cDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH-MGC
Library." "

ORIGIN

Query Match 36.1%; Score 757.2; DB 2; Length 933;
Best Local Similarity 95.8%; Pred. No. 66-144;
Matches 885; Conservative 0; Mismatches 28; Indels 11; Gaps 10;

```

QY 1013 GAGCAATGTGTGTAAGAAAGTTACGACACCTTTCTAATGCTCACCMAAGATGCCCC 1072
DB 2   GAAAGCAATGTGTGTAAGAAAGTTACGACACCTTTCTAATGCTCACCMAAGATGCCCC 61
QY 1073 CCGCTCTTCAGGCGAGACATTAACAGTCCCTTGATGATATGTTTAATACCCAGCA 1132
DB 62   CCGCTCTTCAGGCGAGACATTAACAGTCCCTTGATGATATGTTTAATACCCAGCA 121
QY 1133 CCGCTGCCCCGAATTCACAAAGGATAAATTAATCAACAGTACTCCGAAGATCCAGTT 1192
DB 122  CCGCTGCCCCGAATTCACAAAGGATAAATTAATCAACAGTACTCCGAAGATCCAGTT 181
QY 1193 TACAGCATCAAGTTTCCGTTGCAACGGAATGAAATGTAAGA 1252
DB 182   TACAGCATCAAGTTTCCGTTGCAACGGAATGAAATGTAAGA 241
QY 1253 CCATCTTCCCGC-ACTAGCGGGGCTCCAA-CAAGACCTTACCTGACCTTGACAGGGAGA 1310
DB 242   CCATCTTCCCGCAGACTGCGGGCTCCAAAGACCTTACCTGACCTTGACAGGGAGA 301
QY 1311 TGTATCAACGCTGCTCATCCCGAGAGAGAGATGCTGCTATGGAACAAGAGCT 1370
DB 302   TGTATCAACGCTGCTCATCCCGAGAGAGAGATGCTGCTATGGAACAAGAGCT 361
QY 1371 GTTCAAGGCGAGGGTGTGTTCCGCTGCTGTAACGAAGTTGCTGAAAGAAATGAGAC 1430
DB 362   GTTCAAGGCGAGGGTGTGTTCCGCTGCTGTAACGAAGTTGCTGAAAGAAATGAGAC 421
QY 1431 AGAAGCAGTAGC-GTGCCACGCGCAAGCCCCA-CACAGTGAGAAGCATCAGACCCGTG 1488
DB 422   AGAAGCAGTAGCCTGTGCGCCAGCCAMCCCCAGACCAAGTAAGATCATCAGACCCGTG 481
QY 1489 AACTTGTCTGAAGATAGAGATGTTGTCAATCCCGCAGCAGTACTTGAATGCTTGTCC 1548
DB 482   AACTTGTCTGAAGATAGAGATGTTGTCAATCCCGCAGCAGTACTTGAATGCTTATCC 541
QY 1549 ATGGGGGAGCTGCCAGAGAGAGACAGATTGGCGCAGAGACGACATCCACTTTAAGGCC 1608

```

```

DB 542 ATGGGGGAGCTGCCAGAGAGAGACAGATTGGCGCAGAGACGACATCCACTTTAAGGCC 601
QY 1609 CCAAGGCTCCAA-CCCGAGACCGCGGCTCTTAACGATGCCAAACGGAGCTGCAAGCCGCC 1667
DB 602   CCAAGGCTCCAAAGTCCCGAGACCGCGGCTCTTAACGATGCCAAACGGAGCTGCAAGCCGCC 661
QY 1668 TTTTCTCAGCGAGAAACCCCTTTGGCCATGTAACCTCCGCGAGCTGTGACGAATGA 1727
DB 662   TTTTCTCAGCGAGAAACCCCTTTGGCCATGTAACCTCCGCGAGCTGTGACGAATGA 721
QY 1728 TCGCTCGGACCCATCATTCGATGAGAGACAGCAAGGACTCTCCGGGCTCTCCGGT 1787
DB 722   TCGCTCAGACCCATCATTCGATGAGAGACAGGC-AGGACTCTCCGGGCTCTCCGGT 780
QY 1788 TTTCCCTTCGGAATGATGAGGCGCATCTGTCTC-TGCCAGTCTGACAGGTGGAAAGCTT 1846
DB 781   TTTCCCTTCGGAATGATGAGGCGCATCTGTCTCAGTCTGACAGGTGGAAAGCTT 840
QY 1847 CAGTGA--GAGGCTTAACCTTAATGTC-GCCTGCTTAAGCAAT-CATGCTTCTGT 1902
DB 841   CAGTGAAGAGGCTTAACCTTATGTCGCTTGAAGCAATCATGCTTCTGT 900
QY 1903 TCACGTAGTTGGTTGACAAAGTTT 1926
DB 901   TCACGTAGTTGGTTGACAAAGTTCT 924

```

Search completed: March 20, 2006, 15:59:48
Job time : 8390 secs